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ecific promoter
rners, and treatment

sen, Shila; Sorensen,
Henrik Irgang

ICN NO. DATE

PB3534 20020019

BC, BP, BY, BZ, CA, CH,
DN, DE, EC, EE, EE, ES,
IS, IN, IS, GE, KE, KG,
MA, MD, ME, ME, MN, NW,
SD, SE, SG, SI, SK, SK,
UN, VN, YU, ZA, ZM, ZW,

UG, UM, ZW, AT, BE, CH,
LI, MC, NL, PT, SE, TR,
ML, MR, NE, SN, TD, TG

tion of mols. expressed at a
cells compared to
tion of cancer-specific
for delivery and expression
The invention furthermore
surface mols. identified by

the methods of the invention. In embodiments of the invention, the targeting complexes comprise the promoters identified by the methods of the invention. In addn. the invention describes methods of identifying binding partners for the cell surface mols. and the binding partners per se. Methods of treatment using the targeting complexes and uses of the targeting complexes for the prepn. of a medicament are also disclosed by the invention. Furthermore, the invention describes uses of the cell surface mols. or fragments thereof for prepn. of vaccines.

- ST screening cancer cell surface mol promoter antitumor drug
- IT INDEXING IN PROGRESS
- IT Glutamate receptors
 FL: BSU (Biological study, unclassified); BICL (Biological study)
 (AMPA-binding, agonists/antagonists, binding partner; cancer cell
 cell-surface mol. and cancer-specific promoter identification,
 targeting complexes, binding partners, and treatment methods)
- IT Gene, animal
 FL: BSU (Biological study, unclassified); BICL (Biological study;
 (PC13; cancer cell cell-surface mol. and cancer-specific promoter
 identification, targeting complexes, binding partners, and treatment
 methods)
- IT Gene, animal
 FL: BSU (Biological study, unclassified); BICL (Biological study)
 (PM1-1; cancer cell cell-surface mol. and cancer-specific promoter
 identification, targeting complexes, binding partners, and treatment
 methods)
- IT Proteins
 FL: PAC (Pharmacological activity); THU (Therapeutic use); BICL
 Biological study); USES (Uses)
 (RFA1, tumor suppressor; cancer cell cell-surface mol. and
 cancer-specific promoter identification, targeting complexes, binding
 partners, and treatment methods)
- IT Proteins
 FL: PAC (Pharmacological activity); THU (Therapeutic use); BICL
 Biological study); USES (Uses)
 (Bak, **apoptosis** inducer; cancer cell cell-surface mol. and
 cancer-specific promoter identification, targeting complexes, binding
 partners, and treatment methods)
- IT Proteins
 FL: PAC (Pharmacological activity); THU (Therapeutic use); BICL
 Biological study); USES (Uses)
 (Bax, **apoptosis** inducer; cancer cell cell-surface mol. and
 cancer-specific promoter identification, targeting complexes, binding
 partners, and treatment methods)
- IT Proteins
 FL: PAC (Pharmacological activity); THU (Therapeutic use); BICL
 Biological study); USES (Uses)
 (Bid, **apoptosis** inducer; cancer cell cell-surface mol. and
 cancer-specific promoter identification, targeting complexes, binding
 partners, and treatment methods)
- IT Interleukin receptors
 FL: BSU (Biological study, unclassified); BICL (Biological study)
 (CCKE; cancer cell cell-surface mol. and cancer-specific promoter
 identification, targeting complexes, binding partners, and treatment
 methods)
- IT CD antigens
 FL: BSU (Biological study, unclassified); BICL (Biological study)
 (CD103; cancer cell cell-surface mol. and cancer-specific promoter
 identification, targeting complexes, binding partners, and treatment
 methods)
- IT Proteins
 FL: PAC (Pharmacological activity); THU (Therapeutic use); BICL
 Biological study); USES (Uses)
 (C18N2A, tumor suppressor; cancer cell cell-surface mol. and

- cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Proteins
RL: PSU (Biological study, unclassified); BIOL (Biological study)
(HPNA5, targeting complex; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(TPH 54 A; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(TPH 54 B; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Gene, animal
RL: PSU (Biological study, unclassified); BIOL (Biological study)
(Cym; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Proteins
RL: IAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(DCC (deleted in colorectal cancer), tumor suppressor; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(MS 114; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(MS 155; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(MS 275; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(MS 405; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(MS 450; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(MS 55; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(MS 70; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(MS 92; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Proteins
RL: IAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(DPCH, tumor suppressor; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding

- partners, and treatment methods)
- IT Apolipoproteins
FL: BSU (Biological study, unclassified); BIDL (Biological study)
(E, peptides, binding partner; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Cadherins
FL: BSU (Biological study, unclassified); BIDL (Biological study)
(E-, binding partner; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Apolipoproteins
FL: BSU (Biological study, unclassified); BIDL (Biological study)
(E, binding partner; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Apolipoproteins
FL: BSU (Biological study, unclassified); BIDL (Biological study)
(E, binding partner; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Apolipoproteins
FL: BSU (Biological study, unclassified); BIDL (Biological study)
(E, binding partner; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Gene, animal
FL: BSU (Biological study, unclassified); BIDL (Biological study)
(E, cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Gene, animal
FL: BSU (Biological study, unclassified); BIDL (Biological study)
(E, cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Proteins
FL: PAC (Pharmacological activity); THU (Therapeutic use); BIDL (Biological study); USEF (Uses)
(F, tumor suppressor; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Gene, animal
FL: BSU (Biological study, unclassified); BIDL (Biological study)
(E, cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Gene, animal
FL: BSU (Biological study, unclassified); BIDL (Biological study)
(Fes/Fps; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Gene, animal
FL: BSU (Biological study, unclassified); BIDL (Biological study)
(Flg; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Gene, animal
FL: BSU (Biological study, unclassified); BIDL (Biological study)
(Fms; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Gene, animal

- RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Fyn; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Animal cell line
(GLC 14; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Animal cell line
(GLC 16; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Animal cell line
(GLC 19; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Animal cell line
(GLC 26; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Animal cell line
(GLC 28; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Animal cell line
(GLC 3; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Animal cell line
(GLC 3; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(GFM49; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(GFIA2, targeting complex; cancer cell cell-surface mol. and
cancer-specific promoter identification, targeting complexes, binding
partners, and treatment methods)
- IT Proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(GFM6, targeting complex; cancer cell cell-surface mol. and
cancer-specific promoter identification, targeting complexes, binding
partners, and treatment methods)
- IT Proteins
RL: PAU (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(GEM6, **apoptosis** inducer; cancer cell cell-surface mol. and
cancer-specific promoter identification, targeting complexes, binding
partners, and treatment methods)
- IT Genetic methods
Gene Chip anal.; cancer cell cell-surface mol. and cancer-specific
promoter identification, targeting complexes, binding partners, and
treatment methods)
- IT Proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(IT3AE, targeting complex; cancer cell cell-surface mol. and
cancer-specific promoter identification, targeting complexes, binding
partners, and treatment methods)
- IT Proteins

- RL: BSU (Biological study, unclassified); BIOL (Biological study)
(ITGAV, targeting complex; cancer cell cell-surface mol. and
cancer-specific promoter identification, targeting complexes, binding
partners, and treatment methods)
- IT Toxins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(CEIK; binding partner; cancer cell cell-surface mol. and
cancer-specific promoter identification, targeting complexes, binding
partners, and treatment methods)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(PGB; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Fit; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(L1CAM, recombinant fragments, binding partner; cancer cell
cell-surface mol. and cancer-specific promoter identification,
targeting complexes, binding partners, and treatment methods)
- IT Proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(LH18, targeting complex; cancer cell cell-surface mol. and
cancer-specific promoter identification, targeting complexes, binding
partners, and treatment methods)
- IT Animal cell line
(MCF 36 MI; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Animal cell line
(MCF H24; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Proteins
RL: PAU (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(MEN, tumor suppressor; cancer cell cell-surface mol. and
cancer-specific promoter identification, targeting complexes, binding
partners, and treatment methods)
- IT Proteins
RL: PAU (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(MEN-1, tumor suppressor; cancer cell cell-surface mol. and
cancer-specific promoter identification, targeting complexes, binding
partners, and treatment methods)
- IT Proteins
RL: PAU (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(MEN-II, tumor suppressor; cancer cell cell-surface mol. and
cancer-specific promoter identification, targeting complexes, binding
partners, and treatment methods)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Ma; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Mer; cancer cell cell-surface mol. and cancer-specific promoter

- identification, targeting complexes, binding partners, and treatment methods)
- IT Gene, animal
 FL: BSU (Biological study, unclassified); BIOL (Biological study)
 (Met; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Cell adhesion molecules
 FL: BSU (Biological study, unclassified); BIOL (Biological study)
 (N-CAM, NCAM-1, binding partner; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Gene, animal
 FL: BSU (Biological study, unclassified); BIOL (Biological study)
 (N-ras; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Proteins
 FL: BSU (Biological study, unclassified); BIOL (Biological study)
 (NCAM, targeting complex; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
 (NCI-H467; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
 (NCI-H469; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
 (NCI-H468; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
 (NCI-446; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
 (NCI-H1048; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
 (NCI-H1059; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
 (NCI-H1092; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
 (NCI-H1105; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
 (NCI-H1134; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
 (NCI-H1238; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line

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| IT | Animal cell line (NCI-H121; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods) |
| IT | Animal cell line (NCI-H1233; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods) |
| IT | Animal cell line (NCI-H1241; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods) |
| IT | Animal cell line (NCI-H1417; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods) |
| IT | Animal cell line (NCI-H1436; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods) |
| IT | Animal cell line (NCI-H1446; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods) |
| IT | Animal cell line (NCI-H1522; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods) |
| IT | Animal cell line (NCI-H1614; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods) |
| IT | Animal cell line (NCI-H1672; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods) |
| IT | Animal cell line (NCI-H1688; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods) |
| IT | Animal cell line (NCI-H1694; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods) |
| IT | Animal cell line (NCI-H1836; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods) |
| IT | Animal cell line (NCI-H1870; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods) |
| IT | Animal cell line (NCI-H1876; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods) |
| IT | Animal cell line (NCI-H187; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods) |

- IT Animal cell line
(NCI-H1981; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H1985; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H1989; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H1993; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H1996; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H1994; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H2009; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H2009; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H2006; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H2011; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H2009; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H2007; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H2003; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H2011; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H2141; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H2171; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)

- methods)
- IT Animal cell line
(NCI-H4195; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H4196; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H4198; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H422; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H423; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H4286; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H4390; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H439; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H444; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H473; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H446; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H460; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H510A; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H514; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H516; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H592; cancer cell cell-surface mol. and cancer-specific promoter

- identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H660; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H666; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H711; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H719; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H735; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H740; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H748; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H774; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H82; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H841; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H847; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H865; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Animal cell line
(NCI-H889; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Proteins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(NF- κ B, tumor suppressor; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Proteins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

- (NF-2, tumor suppressor; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study) METXR, targeting complex; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study) Met; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Proteins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
METCH, tumor suppressor; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study) Fim; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Adipose tissue
Adrenal gland
Bladder
Brain
Esophagus
Heart
Kidney
Larynx
Leukocyte
Liver
Lung
Mammary gland
Muscle
Ovary
Pancreas
Placenta
Prostate gland
Salivary gland
Skin
Spinal cord
Spleen
Stomach
Testis
Thymus gland
Thyroid gland
Trachea (anatomical)
Uterus
cDNA from; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT PCR (polymerase chain reaction)
RT-PCR (reverse transcription-PCR); cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study) Raf; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)

- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Pap-3; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Transcription factors
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(Pc; tumor suppressor; cancer cell cell-surface mol. and
cancer-specific promoter identification, targeting complexes, binding
partners, and treatment methods)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Pp0A; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Animal cell line
(CEP-77; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Animal cell line
(SW 1271; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Cki; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Cpi-1; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Cic; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Cyn; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(TTF49 (taupoxin-assoc. calcium-binding protein 49); cancer cell
cell-surface mol. and cancer-specific promoter identification,
targeting complexes, binding partners, and treatment methods)
- IT Proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(TNEF1; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(TNEF2; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(TNFR-related death receptor 6; cancer cell cell-surface mol. and
cancer-specific promoter identification, targeting complexes, binding

- partners, and treatment methods)
- IT Proteins
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (TNF α ; cancer cell cell-surface mol. and cancer-specific promoter
 identification, targeting complexes, binding partners, and treatment
 methods)
- IT Proteins
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (TNF α (tumor necrosis factor-related **apoptosis**-inducing
 ligand), **apoptosis** inducer; cancer cell cell-surface mol. and
 cancer-specific promoter identification, targeting complexes, binding
 partners, and treatment methods)
- IT Genetic element
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (TRE (thyroid hormone-responsive element); cancer cell cell-surface
 mol. and cancer-specific promoter identification, targeting complexes,
 binding partners, and treatment methods)
- IT Proteins
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (TSC2, tumor suppressor; cancer cell cell-surface mol. and
 cancer-specific promoter identification, targeting complexes, binding
 partners, and treatment methods)
- IT Gene, animal
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (Trk; cancer cell cell-surface mol. and cancer-specific promoter
 identification, targeting complexes, binding partners, and treatment
 methods)
- IT Proteins
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (VHL, tumor suppressor; cancer cell cell-surface mol. and
 cancer-specific promoter identification, targeting complexes, binding
 partners, and treatment methods)
- IT Proteins
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (WT-1, tumor suppressor; cancer cell cell-surface mol. and
 cancer-specific promoter identification, targeting complexes, binding
 partners, and treatment methods)
- IT Gene, animal
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (Wnt-3a; cancer cell cell-surface mol. and cancer-specific promoter
 identification, targeting complexes, binding partners, and treatment
 methods)
- IT Lipoprotein receptors
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (apolipoprotein E, 2; cancer cell cell-surface mol. and cancer-specific
 promoter identification, targeting complexes, binding partners, and
 treatment methods)
- IT Fas antigen
 Tumor necrosis factors
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (**apoptosis** inducer; cancer cell cell-surface mol. and
 cancer-specific promoter identification, targeting complexes, binding
 partners, and treatment methods)
- IT Cell cycle
 arrest, protein contributing to; cancer cell cell-surface mol. and
 cancer-specific promoter identification, targeting complexes, binding
 partners, and treatment methods)
- IT Astrocyte

- (astrocytoma; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Receptors
 FL: BSU (Biological study, unclassified); BIOL (Biological study)
 (atrial natriuretic peptide clearance receptor; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Proteins
 FL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (Bcl-2, **apoptosis** inducer; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Fibrinogens
 Fibronectins
 Laminins
 Osteopontin
 Peptides
 Thrombospondins
 Vitronectin
 FL: BSU (Biological study, unclassified); BIOL (Biological study)
 (binding partner; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Steroid receptors
 FL: BSU (Biological study, unclassified); BIOL (Biological study)
 (binding site; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Proteins
 FL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (inactive; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Gene, animal
 FL: BSU (Biological study, unclassified); BIOL (Biological study)
 (cell; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Gene, animal
 FL: BSU (Biological study, unclassified); BIOL (Biological study)
 (cell; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Gene, animal
 FL: BSU (Biological study, unclassified); BIOL (Biological study)
 (cells; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Gene, animal
 FL: BSU (Biological study, unclassified); BIOL (Biological study)
 (cells; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Antitumor agents
 Brain, neoplasm
 Chemotherapy
 Combinatorial library
 Cytodetective agents
 Cytotoxic agents
 Databases

Drug delivery systems
 Drug screening
 Drug targets
 Gene therapy
 Human
 Immunotherapy
 Leukemia
 Lung, neoplasm
 Melanoma
 Neoplasm
 Northern blot hybridization
 Ovary, neoplasm
 Peptide library
 Phage display library
 Radiotherapy
 Surgery
 Uterus, neoplasm
 (cancer cell cell-surface mol. and cancer-specific promoter
 identification, targeting complexes, binding partners, and treatment
 methods)

IT Bombesin receptors
 Epidermal growth factor receptors
 Insulin-like growth factor I receptors
 Insulin-like growth factor II receptors
 Insulin-like growth factor receptors
 Nucleic acids
 Promoter (genetic element)
 RNA
 Silencer (genetic element)
 tDNA
 mRNA
 FL: BSU (Biological study, unclassified); BIOL (Biological study)
 (cancer cell cell-surface mol. and cancer-specific promoter
 identification, targeting complexes, binding partners, and treatment
 methods)

IT Antisense RNA
 Cytokines
 Glucocorticoids
 Hormones, animal
 Radiolucides
 Ribozymes
 Ficin
 Toxins
 p53 (protein)
 FL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 Biological study); USES (Uses)
 (cancer cell cell-surface mol. and cancer-specific promoter
 identification, targeting complexes, binding partners, and treatment
 methods)

IT Proteins
 FL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 Biological study); USES (Uses)
 (capsid, viral, endosomal lytic agent; cancer cell cell-surface mol.
 and cancer-specific promoter identification, targeting complexes,
 binding partners, and treatment methods)

IT Ligands
 FL: BSU (Biological study, unclassified); BIOL (Biological study)
 (cell-surface mol. binding partners; cancer cell cell-surface mol. and
 cancer-specific promoter identification, targeting complexes, binding
 partners, and treatment methods)

IT Post-translational processing
 (cell-surface mol. extracellular portion; cancer cell cell-surface mol.
 and cancer-specific promoter identification, targeting complexes,

- binding partners, and treatment methods)
- IT Uterus
(cervix; FNA from; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Uterus, neoplasm
(cervix; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Toxins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cholera; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Intestine
(colon, RNA from; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Intestine, neoplasm
(colon; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Intestine, neoplasm
(colorectal; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Neoplasm
(craniopharyngioma; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Toxins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(diphtheria; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Brain, neoplasm
(ependymoma; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Pseudomonas
(exotoxin; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Toxins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(exotoxins, Pseudomonas; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Proteins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(gene MSH2, tumor suppressor; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Receptors
RL: ESU (Biological study, unclassified); BIOL (Biological study)
(glial cell line-derived neurotrophic factor .alpha. receptor; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Neuroglia

- (**glioblastoma**; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Anticodies
 RL: ESU (Biological study, unclassified); BIOL (Biological study)
 (humanized; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Immunoassay
 (immunoblotting; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Apoptosis
 (inducers; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Drug delivery systems
 (injections, i.v.; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Drug delivery systems
 (injections, s.c.; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Antigens
 RL: ESU (Biological study, unclassified); BIOL (Biological study)
 (insulinoma-assoc. antigen 1; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Gene, animal
 RL: ESU (Biological study, unclassified); BIOL (Biological study)
 (int-2; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Biological transport
 (internalization; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Genetic element
 RL: ESU (Biological study, unclassified); BIOL (Biological study)
 (intron; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Glutamate receptors
 RL: ESU (Biological study, unclassified); BIOL (Biological study)
 (ionotropic glutamate receptor 2; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Proteins
 RL: ESU (Biological study, unclassified); BIOL (Biological study)
 (lamins, B1; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Antigens
 RL: ESU (Biological study, unclassified); BIOL (Biological study)
 (large T, SV40, nuclear targeting signal; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Simian virus 40
 (large tumor antigen, nuclear targeting signal; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Endosome

- (lytic agent; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Brain, neoplasm
(medulloblastoma; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Proteins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(membrane-destabilizing, endosomal lytic agent; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Meninges
(meningioma; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Glutamate receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(metabotropic, 3; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Antibodies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(monoclonal, 12303, binding partner; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Bladder
Gamete and Germ cell
Mammary gland
Prostate gland
(neoplasm; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Nerve, neoplasm
(neuroblastoma; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Nerve
(neuron, neuroma; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Receptors
RL: PST (Biological study, unclassified); BIOL (Biological study)
(neuronal pentraxin receptor; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Lung, neoplasm
(non-small-cell carcinoma; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Histones
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(nucleic acid binding agent; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Oligodendrocyte
(oligodendroglioma; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Peptides
RL: BSU (Biological study, unclassified); BIOL (Biological study)

(oligopeptides, nuclear targeting signal; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)

IT Gene

FL: BSU (Biological study, unclassified); BIOL (Biological study) (oncogene, and proto-oncogene, antisense RNA or ribozyme targeted against RNA of; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)

IT Cyclin dependent kinase inhibitors

FL: PAC (Pharmacological activity; THU (Therapeutic use); BIOL (Biological study); USES (Uses) (p16INK4A, tumor suppressor; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)

IT Gene, animal

FL: BSU (Biological study, unclassified); BIOL (Biological study) (p56; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)

IT Proteins

FL: PAC (Pharmacological activity; THU (Therapeutic use); BIOL (Biological study); USES (Uses) (p73, tumor suppressor; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)

IT Drug delivery systems

(parenterals; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)

IT Proteins

FL: BSU (Biological study, unclassified); BIOL (Biological study) (pentraxins, binding partner; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)

IT Neoplasm

(pancreas; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)

IT Membrane, biological

(polypeptide destabilizing, endosomal lytic agent; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)

IT Nucleic acids

FL: BSU (Biological study, unclassified); BIOL (Biological study) (pnc130; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)

IT Nucleic acids

FL: BSU (Biological study, unclassified); BIOL (Biological study) (pnc140; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)

IT Nucleic acids

FL: BSU (Biological study, unclassified); BIOL (Biological study) (pnc14; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)

IT Nucleic acids

FL: BSU (Biological study, unclassified); BIOL (Biological study) (pnc16; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)

- IT Nucleic acids
RL: ESU (Biological study, unclassified); BIOL (Biological study)
(proj. 6; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Nucleic acids
RL: ESU (Biological study, unclassified); BIOL (Biological study)
(proj. 7; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Nucleic acids
RL: ESU (Biological study, unclassified); BIOL (Biological study)
(proj. 9; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Nucleic acids
RL: ESU (Biological study, unclassified); BIOL (Biological study)
(proj. 10; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Nucleic acids
RL: ESU (Biological study, unclassified); BIOL (Biological study)
(proj. 21; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Nucleic acids
RL: ESU (Biological study, unclassified); BIOL (Biological study)
(proj. 46; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Nucleic acids
RL: ESU (Biological study, unclassified); BIOL (Biological study)
(proj. 73; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Nucleic acids
RL: ESU (Biological study, unclassified); BIOL (Biological study)
(proj. 7; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Nucleic acids
RL: ESU (Biological study, unclassified); BIOL (Biological study)
(proj. 4; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Nucleic acids
RL: ESU (Biological study, unclassified); BIOL (Biological study)
(proj. 9; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Nucleic acids
RL: ESU (Biological study, unclassified); BIOL (Biological study)
(proj. 62; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Nucleic acids
RL: ESU (Biological study, unclassified); BIOL (Biological study)
(proj. 41; cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods)
- IT Nucleic acids
RL: ESU (Biological study, unclassified); BIOL (Biological study)
(proj. 49; cancer cell cell-surface mol. and cancer-specific promoter

- identification, targeting complexes, binding partners, and treatment methods)
- IT Nucleic acids
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (prob4; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Nucleic acids
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (prob5; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Nucleic acids
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (prob7; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Nucleic acids
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (prob8; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Therapy
 (protein; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Intestine
 (rectum, RNA from; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Virus
 (replication-defective, endosomal lytic agent; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Schwann cell
 (schwannoma; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Intestine
 (small, RNA from; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Lung, neoplasm
 (small-cell carcinoma; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Antibodies
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (to cell-surface mols., binding partner; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Lasers
 (treatment with; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT ADP ribosylation factor
 APC protein
 Proteins

- RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(tumor suppressor; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Antigens
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(tumor-associated; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Vaccines
(tumor; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Bombesin receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(type BBI; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Antitumor agents
(vaccines; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(viral; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Phototherapy
(with laser light; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Integrins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(alpha.v; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Transforming growth factors
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(beta.-, **apoptosis** inducer; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Transforming growth factor receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(beta.-transforming growth factor type I; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT Transforming growth factor receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(beta.-transforming growth factor type II; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT 186123-el-6, Caspase
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**apoptosis** inducer; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)
- IT 85637-73-6, Atrial natriuretic peptide
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(atrial natriuretic peptide clearance receptor; cancer cell cell-surface mol. and cancer-specific promoter identification,

targeting complexes, binding partners, and treatment methods'

IT 51-83-2, Carbachol 51-84-2, Acetylcholine 54-11-5, Nicotine 56-86-0, L-Glutamic acid 56-86-0, L-Glutamic acid, analogs 497-79-5, Kainic acid 2979-57-2, DNQX 9001-6-7, Prothionin 10174-12-8, 6-Chlorogynurenic acid 11032-72-4, Alpha-Bungarotoxin 53019-39-3, Talipexin 63291-47-41, Quinoxaline-2,3-dione, deriva. 83643-29-4 101771-16-6, SYR152460 10931-16-6, Von Willebrand's factor 111065-14-1, DNQX 118876-58-1, NBQX 120677-15-4 134052-73-6 140187-00-1 140187-15-3 140400-35-1, Matrix metalloproteinase 2 240710-11-2, 1-C-3,4-ICPB 404845-87-2, Resin 474577-0-4 482534-85-1 483353-86-1 483602-87-2 483604-63-2

ECU (Ecological study, unclassified); Biol. (Biological study, binding partner; cancer cell-cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods)

IT 13714-6 1-6 1237-1 3-2 47477-68-1 47477-68-1 47477-68-1 47477-68-1

EBL: EBL (Ecological study, Unpublished); EBL: Properties: : EBL:
 Ecological study
 binding partner; cancer cell cell-surface mol. and cancer-specific
 promoter identification, targeting complexes, binding partners, and
 treatment methods)

IT 16-65-5, Spot: 901:-2:-1, Streptococcus

HL: BCU (Biological study, unclassified); BTL (Biological study, cancer cell-cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods);

IT 10-63-3, Dexamethasone 50-76-6, Actinomycin D 13-79-1, Furazolidin
54-65-7, Chloroquine 66-81-1, Cycloheximide 302-79-4, Retinoic acid
78-44-4, Camptothecin 1884-46-1, Streptozocin 3439-42-0,
Etoposide 5206-63-7, AZ1387 50026-74-1, Staurosporine 67116-95-8,
Thapsigargin 1111-17-1, Oxalic acid

Biological study ; USES (Uses).
cancer cell cell-surface mol. and cancer-specific promoter
identification, targeting complexes, binding partners, and treatment
methods.

IT $\frac{1}{2}(15 - 4x - 6)$

PH: Pharmacological activity; TH: Therapeutic uses; ECOL: Ecological study; USES: Uses.
 • Anticancer lymph agent; cancer cell cell-surface mol. and
 cancer-specific promoter identification, targeting, complex, binding
 partners, and treatment methods

IT 11-44-4, Spermine 11-4-10-9, Spermidine 11-4-14-1, 3507-L-lysine
3000-000-5, 3500-L-lysine

Biological activity; THU (Therapeutic use; BIOL
Biological study; UDES (Uses:
anticancer agent; cancer cell cell-surface mol. and
cancer-specific promoter identification, targeting complexes, binding
partners, and treatment methods)

[illegible]

Unclaimed nucleotide sequence; cancer cell cell-surface mol. and cancer-specific promoter identification, targeting complexes, binding partners, and treatment methods.

| | | | | | |
|----|-------------|-------------|-------------|-------------|-------------|
| IT | 482671-18-8 | 482671-18-9 | 482671-19-0 | 482671-19-1 | 482671-19-2 |
| | 482671-20-5 | 482671-21-6 | 482671-22-7 | 482671-23-8 | 482671-24-9 |

AL: PEP : Properties)

| | | | | | |
|----|-------------|---------------|-------------|-------------|-------------|
| IT | 130138-40-6 | 130137-1-34-3 | 130143-90-2 | 126143-40-3 | 140543-42-2 |
| | 130138-34-3 | 130137-67-5 | 130143-11-1 | 170138-36-3 | 130136-70-5 |
| | 130143-08-7 | 200138-08-1 | 200135-47-2 | 200138-08-8 | 215777-00-7 |
| | 130138-37-3 | 250128-12-4 | 250138-21-1 | 250128-21-3 | 300133-86-7 |
| | 130138-00-0 | 370137-03-1 | 370137-03-2 | 370137-05-4 | 370137-66-5 |
| | 130138-00-0 | 370137-01-1 | 370137-01-1 | 370137-05-9 | 370137-70-0 |
| | 430138-00-0 | 470138-00-0 | 470137-80-1 | 470137-80-1 | 470137-80-1 |
| | 430138-00-0 | 430137-00-0 | 430137-01-0 | 430137-02-0 | 430137-09-0 |
| | 430138-44-3 | 430137-10-0 | 430137-00-0 | 430137-04-0 | 430138-11-6 |
| | 430138-41-1 | 430137-04-4 | 430137-04-0 | 430137-15-7 | 430137-17-4 |
| | 430138-17-0 | 430137-18-0 | 430137-13-7 | 430137-20-0 | 430137-21-1 |
| | 430138-22-2 | 430137-23-3 | 430137-24-4 | 430137-25-5 | 430137-26-6 |
| | 430138-27-7 | 430137-28-4 | 430137-30-1 | 430137-39-5 | 430137-60-7 |
| | 430138-70-3 | 430137-74-4 | 430137-75-3 | 430137-76-6 | 430137-77-7 |
| | 430138-00-9 | 430137-81-3 | 430137-80-4 | 430137-80-5 | 430137-91-5 |
| | 430137-50-0 | | | | |

2.2. THE PROPERTIES

L75 ANSWER . OF 13 REAPLUS COPYRIGHT 2006 AOL

AN 2002:832650 HCAPLIS

DN 137:351517

TI Use of dendritic cell-attracting chemokines for augmentation of an immune response

IN Schale, Thomas J.; Talbot, Dale; Kersovitch, Robert; Theng, Wei; Howard, Heinrich; Bremack, Brett

[illegible]

SO. JOUR. Int. Appl., 3: 1 pp.

CONFIDENTIAL

DT Patient

LA 3001.ch

IC 1011 A6290 39-110

CC 11-5 - Immunochromatography

FAN, CHIT 2

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

PI WO 2002/03409 AC 2:0210:1 WO 2001-024717 2001.00

| | |
|-----|---|
| W: | AE, AG, AL, AM, AT, AU, AV, BA, BB, BG, BE, BY, BU, CA, CH, CN, |
| | CO, CR, CU, CV, DE, DF, DM, DG, EG, EE, EF, FI, GA, GD, GE, GH, |
| | GM, GN, HO, II, IL, IN, IO, JP, KE, KG, KH, KI, LC, LF, LR, |
| | LS, LT, LU, LV, MA, MD, MG, ME, MN, MW, MX, MZ, NG, NE, PE, PL, |
| | PT, RA, RB, SC, SE, SG, SI, SP, SL, TG, TH, TE, TT, TV, UA, UG, |
| | VO, VM, VN, ZA, EW, AM, AG, BY, EG, EE, EF, FI, GM, |
| EW: | GH, GN, KE, LU, MW, ME, ND, SL, SO, TG, UG, EW, AG, BE, CH, CY, |
| | DE, DF, EG, FI, FR, GA, GR, IE, IT, IN, MC, NL, PT, SE, SF, BF, |
| | SC, CE, CH, CL, CM, CR, CN, GO, GW, HS, ME, NE, SH, TD, TG |

PRAT 01 2 01-3 451; A 2 01041.

AB The authors describe a method for enhancing an **immune response** to an antigen. In an example, the authors demonstrate that the antibody **response** to a model antigen is enhanced by the coadministration of C1b or vMCK2 chemokines. The comps. and methods are useful for, among other things, vaccine formulation for therapeutic and prophylactic vaccination (**immunization**) and for prodn. of useful antibodies (e.g., monoclonal antibodies for therapeutic or diagnostic use).

ST vaccine immunization dendritic cell chemokine

- ```

IT Chemokines
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses
 (ECA-1; enhancement of immune responses to antigens
 by)
IT Chemokines
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses
 (C10; enhancement of immune responses to antigens
 by)
IT Glycoproteins
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (CD4-L (antigen CD41 ligand); with dendritic cell-attracting
 chemokines for enhancement of immune responses)
IT Chemokines
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses
 (MIP-1 (hemofiltrate C chemokine 1); enhancement of immune
 responses to antigens by)
IT Chemokines
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses
 (MCK-2, viral; enhancement of immune responses to
 antigens by)
IT Chemokines
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses
 (MDC (macrophage-derived chemokine); enhancement of immune
 responses to antigens by)
IT Chemokines
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses
 (EIP1F-1; enhancement of immune responses to
 antigens by)
IT Chemokines
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses
 (M1; (monokine induced by interferon-.gamma.); enhancement of
 immune responses to antigens by)
IT Chemokines
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses
 (TECK; enhancement of immune responses to antigens
 by)
IT Immunostimulants
 adjuvants, Freund's incomplete; with dendritic cell-attracting
 chemokines for enhancement of immune responses)
IT Immunostimulants
 adjuvants; with dendritic cell-attracting chemokines for enhancement
 of immune responses)
IT Astrocyte
 astrocytoma; dendritic cell-attracting chemokines for enhancement of
 antitumor immune response to)
IT Immune stimulation
 (/ dendritic cell-attracting chemokines)
IT Polysaccharides, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (capsular; with dendritic cell-attracting chemokines for enhancement of
 immune responses)
IT Drug delivery systems
 (carriers; for dendritic cell-attracting chemokines in enhancement of
 immune responses)
IT Antibodies

```

- PL: BSU (Biological study, unclassified); BIOL (Biological study)  
(chemotaxins for dendritic cells enhance **immune response** by)
- IT Human  
(dendritic cell-attracting chemokines enhance **immune response** to antigens)
- IT Melanoma  
(dendritic cell-attracting chemokines for enhancement of antitumor **immune response** to)
- IT hepatitis virus  
influenza virus  
(dendritic cell-attracting chemokines for enhancement of **immune responses** to)
- IT Chemokines  
PL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(dendritic cell-attracting; enhancement of **immune responses** to antigens by)
- IT brain, neoplasm  
ovary, neoplasm  
(enhancement of antitumor **immune response** by expression of dendritic cell-attracting chemokines in)
- IT Neisseria meningitidis  
Streptococcus  
Streptococcus pneumoniae  
(enhancement of **immune response** with dendritic cell-attracting chemokines on polysaccharide carriers from)
- IT Rotaxin  
Macrophage inflammatory protein 1.alpha.  
Macrophage inflammatory protein 1.beta.  
Macrophage inflammatory protein 2  
Monocyte chemoattractant protein-1  
RANTES (chemokine)  
PL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(enhancement of **immune responses** to antigens by)
- IT Dendritic cell  
(enhancement of **immune responses** to antigens by chemotaxins for)
- IT Immunization  
(genetic; with antigen in combination with dendritic cell-attracting chemokines)
- IT Neuroglia  
(glioblastoma; dendritic cell-attracting chemokines for enhancement of antitumor **immune response** to)
- IT Neuroglia  
(glioma; dendritic cell-attracting chemokines for enhancement of antitumor **immune response** to)
- IT Neuroglia  
(gliosarcoma; dendritic cell-attracting chemokines for enhancement of antitumor **immune response** to)
- IT Chemokines  
PL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(leukotactins; enhancement of **immune responses** to antigens by)
- IT Chemokines  
PL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(macrophage inflammatory protein 1.gamma.; enhancement of **immune responses** to antigens by)
- IT Chemokines  
PL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL

- (Biological study); USES (Uses)  
macrophage inflammatory protein 3.alpha.; enhancement of  
**immune responses** to antigens by)
- IT Chemokines  
EL: ECU (Biological study, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
macrophage inflammatory protein 3.beta.; enhancement of **immune  
responses** to antigens by)
- IT Chemokines  
EL: ECU (Biological study, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
macrophage inflammatory protein-1.delta.; enhancement of  
**immune responses** to antigens by)
- IT RANTES (chemokine)  
EL: ECU (Biological study, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
methionylate; enhancement of **immune responses** to  
antigens by)
- IT Chemokines  
EL: ECU (Biological study, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
monocyte chemoattractant protein 3; enhancement of **immune  
responses** to antigens by)
- IT Cytokines  
EL: ECU (Biological study, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
monocyte chemoattractant protein 4; enhancement of **immune  
responses** to antigens by)
- IT Chemokines  
EL: ECU (Biological study, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
monocyte chemoattractant protein 5; enhancement of **immune  
responses** to antigens by)
- IT Chemokines  
EL: ECU (Biological study, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
monocyte chemoattractant protein-2; enhancement of **immune  
responses** to antigens by)
- IT Mammary gland  
neoplasm; dendritic cell-attracting chemokines for enhancement of  
antitumor **immune response** to)
- IT Fusion proteins (chimeric proteins)  
EL: ECU (Biological study, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
dendritic cell-attracting chemokines for enhancement of  
**immune responses**)
- IT Vaccines  
synthetic; enhancement of **immune responses** to  
antigens by chemotaxins for dendritic cells)
- IT Antigens  
EL: ECU (Biological study, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
tumor-asso.; dendritic cell-attracting chemokines for enhancement of  
**immune responses** to)
- IT Vaccines  
tumor; enhancement of **immune responses** to antigens  
by chemotaxins for dendritic cells)
- IT Antitumor agents  
vaccines; enhancement of **immune responses** to  
antigens by chemotaxins for dendritic cells)
- IT Gene therapy  
(with dendritic cell-attracting chemokines)
- IT Alums

## Cytokines

Interleukin 1  
Interleukin 10  
Interleukin 12  
Interleukin 13  
Interleukin 18  
Interleukin 2  
Interleukin 3  
Interleukin 4

EL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(with dendritic cell-attracting chemokines for enhancement of  
**immune responses**)

IT Interferons

EL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(gamma.; with dendritic cell-attracting chemokines for enhancement of  
**immune responses**)

IT 474337-38-7

EL: FRP (Properties)  
(dendritic cell-attracting chemokines for enhancement of **immune responses**)

IT 474345-29-4 474345-30-7 474345-31-8 474345-32-9 474345-33-0  
474345-34-1

EL: FRP (Properties)  
(unclaimed protein sequence; use of dendritic cell-attracting  
chemokines for augmentation of an **immune response**)

IT 5004-54-0, Dextrans, biological studies 33869-16-1, GM-CSF

EL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(with dendritic cell-attracting chemokines for enhancement of  
**immune responses**)

L75 ANSWER 3 OF 14 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:220814 HCAPLUS

DN 136:259587

TI Novel tumor-associated marker

IN Tracht, Ilya; Canfield, Robert; Kalantarov, Gary; Rudchenko, Sergei

PA The Trustees of Columbia University in the City of New York, USA

SO JCT Int. Appl., 276 pp.

CODEN: PIRNDL

DT Patent

LA English

IC ICM C12Q

CC 3-10 (Biochemical Methods)

Section cross-reference(s): 1, 14, 15

FAN.CNT 1

| PATENT NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|----------|
| WO 2002011351                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A2   | 20020311 | WO 2001-US 9242 | 20010918 |
| W: AE, AG, AL, AM, AT, AU, AV, BA, BB, BG, BE, BY, CA, CH, CN, CO, CR, CU, CY, DE, DK, DM, DO, EC, EE, EG, FI, GB, GD, GE, GH, GM, GN, GU, HD, IL, IN, IO, JP, KE, KG, KH, KR, LC, LK, LR, LS, LT, LU, LV, MA, MG, MK, MN, MW, ME, NZ, NO, NE, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TL, TR, TT, TN, UA, UG, US, UZ, YU, ZA, ZW, AM, AN, BY, BG, BZ, BR, BU, BU, TM<br>EW: GH, GM, KE, LS, MW, ME, ND, SH, SS, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, LI, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, NI, TD, TG<br>AU 200109278 A5 20020316 AU 2001-9242 20010918<br>PRAI US 2000-064954 A 20000918<br>WO 2001-9242 W 20010918 |      |          |                 |          |

AB The present invention provides a heteromyeloma cell which does not produce any antibody and is capable of producing a trioma cell which does not produce any antibody when fused with a human lymphoid cell. Wherein the trioma cell so produced is capable of producing a tetroma cell which

produces a monoclonal antibody having specific binding affinity for an antigen when fused with a second human lymphoid cell and such second human lymphoid cell produces an antibody having specific binding affinity for the antigen. The present invention provides monoclonal antibody-producing hybridomas designated 27.F7 and 27.B1. The invention provides a method of detecting TIP-2 antigen on the surface of cancer cells in a sample, and therefore a method for diagnosing cancer in a subject. Further a method for diagnosing and treating said cancer in a subject is provided. The invention provides isolated peptides amino acid sequences (Lys Leu Leu Gly Gly Gln Ile Gly Leu) and (Ser Leu Leu Gly Cys Arg His Tyr Glu Val). The invention provides a kit for detecting the presence of TIP-2 antigen-bearing cancer cells. The invention provides a method for immunohistochemical screening of tissue sections. The invention provides a method for monitoring progression of cancer wherein the cancer cells are TIP-2 antigen-bearing cells.

- ST cancer; diagnosis TIP protein genetic method monoclonal antibody immunohistochem
- IT Proteins
  - 27.F7 (Analyte ; DGN (Diagnostic use); AN.T (Analytical study); BIOL (Biological study); USES (Uses
  - (TIP-2/Tax interacting, clone 2; novel tumor-assocd. marker)
- IT Hybridoma
  - 27.F7 and 27.B1; novel tumor-assocd. marker)
- IT Multiple myeloma
  - 27.B1 hetero-, fused with human lymphoma cell forming tetroma cells; novel tumor-assocd. marker)
- IT Imaging
  - 27.F7, device; novel tumor-assocd. marker
- IT PCR (polymerase chain reaction)
  - 27.F7-PCR (reverse transcription-PCR); novel tumor-assocd. marker)
- IT Infection
  - agent of; novel tumor-assocd. marker
- IT Bacillus anthracis
  - (anthrax from; novel tumor-assocd. marker)
- IT Bacteria (Eubacteria)
  - Eukaryota
  - Virus
  - antigen; novel tumor-assocd. marker;
- IT Skin, neoplasm
  - basal cell carcinoma; novel tumor-assocd. marker)
- IT Toxins
  - AD: ADV (Adverse effect, including toxicity ; BIOL (Biological study)
  - betulin; novel tumor-assocd. marker)
- IT Lung, neoplasm
  - Mammary gland
  - Ovary, neoplasm
  - Prostate gland
  - carcinoma; novel tumor-assocd. marker)
- IT Uterus, neoplasm
  - (cervix, carcinoma; novel tumor-assocd. marker)
- IT Intestine, neoplasm
  - colon, carcinoma; novel tumor-assocd. marker)
- IT Cytolysis
  - complement-dependent; novel tumor-assocd. marker)
- IT Immunity
  - dysfunction of, CD3 or CD4 mediated; novel tumor-assocd. marker)
- IT Enzymes, biological studies
  - sources, animal, biological studies
  - AD: ADV (Adverse effect, including toxicity); BIOL (Biological study)
  - dysfunction of; novel tumor-assocd. marker)
- IT Uterus, neoplasm
  - endometrium, carcinoma; novel tumor-assocd. marker)
- IT Cytometry

(flow; novel tumor-assocd. marker)

IT Histochemistry  
(formalin-fixed; novel tumor-assocd. marker)

IT Immunoglobulins  
RL: ANT (Analyte); PRP (Properties); ANST (Analytical study)  
(fragments, Fab; novel tumor-assocd. marker)

IT Lymphocyte  
(fused with MFP-2 trioma cell or heteromyeloma cell; novel tumor-assocd. marker)

IT **Neuroglia**  
glioblastoma multiforme; novel tumor-assocd. marker)

IT **Transplant and Transplantation**  
graft-vs.-host reaction; novel tumor-assocd. marker)

IT Immunoassay  
(immunohistochem.; novel tumor-assocd. marker)

IT Scintigraphy  
(immuno-scintigraphy, x-ray; novel tumor-assocd. marker)

IT Cell proliferation  
(inhibition of; novel tumor-assocd. marker)

IT Drug delivery systems  
(liposomes; novel tumor-assocd. marker)

IT Neoplasm  
(metastasis; novel tumor-assocd. marker)

IT Antidotes  
RL: BSN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREEP (Preparation)  
(monoclonal; novel tumor-assocd. marker)

IT Leukemia  
(myelogenous; novel tumor-assocd. marker)

IT Lymphocyte  
(natural killer cell; novel tumor-assocd. marker)

IT Nerve, neoplasm  
(neuroblastoma; novel tumor-assocd. marker)

IT AIDS (disease)

Animal tissue

**Apoptosis**

Audiotape

Autoimmune disease

Bacteremia

Blood analysis

Blood plasma

Blood serum

Bone marrow

Cerebrospinal fluid

Chemiluminescent substances

Chemotherapy

Chromosome

Concentration (process)

Cryopreservation

Cryptococcus (fungus)

Cryptococcus (insect)

Culture media

Drugs

Eyes

Ebola virus

Epitopes

Escherichia coli

Fluorescent substances

Fusion, biological

Genetic methods

Hantavirus

Human  
 Human T-lymphotropic virus 1  
 Human T-lymphotropic virus 2  
 Human herpesvirus  
 Human papillomavirus  
 Imaging agents  
 Immobilization, molecular  
 Immunity  
 Influenza virus  
 Klebsiella  
 Labels  
 Lupus erythematosus  
 Lymph  
 Lymphoma  
 Macrophage  
 Mammary gland  
 Melanoma  
 Mouse  
 Neoplasm  
 Nucleic acid hybridization  
 Optical imaging devices  
 Precipitation (chemical)  
 Prostate gland  
 Protein sequences  
 Radiochemical analysis  
 Rheumatoid arthritis  
 Saliva  
 Sepsis  
 Septicemia  
 Staphylococcus  
 Streptococcus  
 Tear (ocular fluid)  
 Test kits  
 Testis, neoplasm  
 Tetanus  
 Urine analysis  
 Viremia  
 (novel tumor-associated marker)  
 IT Lipopolysaccharides  
 FL: ANT (Analyte); ANST (Analytical study)  
 (novel tumor-associated marker)  
 IT DNA  
 FL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL  
 (Biological study); USES (Uses)  
 (novel tumor-associated marker)  
 IT Enzymes, uses  
 FL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
 (novel tumor-associated marker)  
 IT Radionuclides, biological studies  
 FL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical  
 study); BIOL (Biological study); USES (Uses)  
 (novel tumor-associated marker)  
 IT mRNA  
 FL: BCU (Biological study, unclassified); PEP (Physical, engineering or  
 chemical process); BIOL (Biological study); PROC (Process)  
 (novel tumor-associated marker)  
 IT Primers (nucleic acid)  
 FL: NTU (Other use, unclassified); USES (Uses)  
 (novel tumor-associated marker)  
 IT Alcohols, uses  
 FL: NTU (Other use, unclassified); PEP (Physical, engineering or chemical  
 process); PROC (Process); USES (Uses)  
 (novel tumor-associated marker)



IT Tokins  
 Tokois  
 PL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (novel tumor-assocd. marker)

IT Bone, neoplasm  
 (osteosarcoma; novel tumor-assocd. marker)

IT Immunization  
 (passive; novel tumor-assocd. marker)

IT **Dendritic cell**  
 (removal of; novel tumor-assocd. marker)

IT Shock (circulatory collapse)  
 (septic; novel tumor-assocd. marker)

IT Venoma  
 (snake; novel tumor-assocd. marker)

IT Venoma  
 (spider; novel tumor-assocd. marker)

IT Carcinoma  
 (squamous cell; novel tumor-assocd. marker)

IT Thyroid gland, disease  
 (thyroiditis; novel tumor-assocd. marker)

IT Hybridoma  
 (triple MFP-2 fused with lymphoid cell; novel tumor-assocd. marker)

IT 4: 011-17-4  
 PL: PEP (Properties)  
 (unclaimed; novel tumor-assocd. marker)

IT 3-35-6, Biotin 14596-47-3, Phosphorus, isotope of mass 33, uses  
 17749-66- , Phosphorus, isotope of mass 33, uses  
 PL: AAS (Analytical reagent use); ANST (Analytical study); USES (Uses)  
 (novel tumor-assocd. marker)

IT 1: 4-53-7, 8-Azaguanine 44861-47-0, Geneticin  
 PH: PAC (Pharmacological activity); BIOL (Biological study)  
 (novel tumor-assocd. marker)

IT 4 4346-25-1 4 4346-26-1  
 PH: ANT (Analyte); DGN (Diagnostic use); THU (Therapeutic use); ANST  
 (Analytical study); BIOL (Biological study); USES (Uses)  
 (protein sequence; novel tumor-assocd. marker)

IT 4 5011-19-3, 2: PH: WO 0122851 SEQID: 12 unclaimed DNA 405011-21-4, 4:  
 PH: WO 0122851 SEQID: 14 unclaimed DNA 405011-23-6, 6: PH: WO 0122851  
 SEQID: 16 unclaimed DNA 405011-30-1, 8: PH: WO 0122851 SEQID: 18  
 unclaimed DNA 405011-63-7 405011-67-8 405011-70-3 405011-72-5  
 4 5011-74-1 405011-75-6 405011-76-1  
 PL: PEP (Properties)  
 (unclaimed nucleotide sequence; novel tumor-assocd. marker)

IT 4 5011-19-3 405011-19-3 405011-19-3 405011-24-7 405011-64-5  
 4 5011-66-7 405011-66-6 405011-71-4 405011-73-6 405011-75-6  
 4 5011-76-6 405011-76-1  
 PL: PEP (Properties)  
 (unclaimed protein sequence; novel tumor-assocd. marker)

L75 ANSWER 4 OF 13 HCAPLUS COPYRIGHT 2000 ACS

AN 2000:688526 HCAPLUS

TI Induction of antigen-specific unresponsiveness by glioblastoma  
 culture supernatants (GCS)

IN Shearer, Gene M.; Zou, Jian-ping; Coligan,  
 John E.; Choungnet, Claire

PA The Government of the United States of America, as Represented by the  
 Secret, USA

SO ECT Int. Appl.

COBEN: PIKK52

DT Patent

LA English

IC ICM A61K039-00

PAN.CNT 1

|      | PATENT NO.                                                                                                                                                                                                                                                                                                                                                                | FIND DATE   | APPLICATION NO. | DATE     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|----------|
| PI   | WO 2000056256                                                                                                                                                                                                                                                                                                                                                             | A2 10000928 | WO 2000-UST959  | 20000323 |
|      | WO 2000056256                                                                                                                                                                                                                                                                                                                                                             | A1 10010135 |                 |          |
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|      | FW: AR, GM, HE, LS, MW, NZ, SL, SZ, TH, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GE, JE, IT, LT, MC, NL, PT, SE, SF, BJ, CF, CG, CI, CN, CR, DE, EG, GW, ML, MR, NE, PH, TD, TG                                                                                                                                                                                        |             |                 |          |
|      | AU 2000041195                                                                                                                                                                                                                                                                                                                                                             | A5 10001119 | AU 1000-40295   | 20000323 |
|      | EP 1161281                                                                                                                                                                                                                                                                                                                                                                | A2 10 20182 | EP 1000-919639  | 20000323 |
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| PRAI | US 1999-186996P                                                                                                                                                                                                                                                                                                                                                           | F 10 99034  |                 |          |
|      | WO 1000-031959                                                                                                                                                                                                                                                                                                                                                            | W 10000003  |                 |          |

AE The present invention concerns methods of specifically inhibiting an **immune response** of a subject to one or more selected antigens using an **immunosuppressive** composition derived from a **glioblastoma** cell line. The method steps include obtaining a population of **antigen presenting cells (APCs)**; loading the **APC** population with specific antigens in auto-**immune** diseases; or using **donor APCs** (for **transplantation**); incubating the **APC** population with the **immunosuppressive** composition; and introducing the incubated cells into the subject being treated. The **APCs** can be monocytes, macrophages, or dendritic cells. This method causes specific inhibition of the **immune response** because it induces **apoptosis** and/or anergy in the subject's T cells specific for **antigens present** on the **APCs**, but does not affect the **immune response** to antigens not present on the **APC** surfaces. The particular embodiment of the present method is the specific inhibition of a **transplant** recipient's **immune reaction to antigens present** on the **allogeneic graft**. A second particular embodiment of the present method is the specific inhibition of the **immune response** to an autoantigenic protein by a subject suffering from an autoimmune disease.

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TI Cell therapy: achievements and perspectives

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DT Journal; General Review

LA English

CC 15-C (Immunocheristics)

AB A review with 361 refs. Cell therapy can be considered as a strategy aimed at replacing, repairing, or enhancing the biol. function of a damaged tissue or system by means of autologous or allogeneic cells. There have been major advances in this field in the last few years. This has prompted the Working Group on Hematopoietic Cells to examine the current utilization of this therapy in clin. hematol. The method employed

for prepg. this review was that of informal consensus development. Members of the Working Group met three times, and the participants at these meetings examd. a list of problems previously prepd. by the chairman. They discussed the single points in order to reach an agreement on different opinions and eventually approved the final manuscript. Some of the authors of the present review have been working in the field of cell therapy and have contributed original papers in peer-reviewed journals. In addn., the material examd. in the present review includes articles and abstrs. published in journals covered by the Science Citation Index and Medline. Lymphokine-activated killer (LAK) and tumor-infiltrating lymphocytes (TIL) have been used since the '80s mainly in end-stage patients with solid tumors, but the clin. benefits of these treatments has not been clearly documented. TIL are more specific and potent cytotoxic effectors than LAK, but only in few patients (mainly in those with solid tumors such as melanoma and **glioblastoma**) can their clin. use be considered potentially useful. Adoptive **immunotherapy** with donor lymphocyte infusions has proved to be effective, particularly in patients with chronic myeloid leukemia, in restoring a state of hematol. remission after leukemia relapse occurring following an allograft. The infusion of donor T-cells can also have a role in the treatment of patients with Epstein-Barr virus (EBV)-induced post-transplant lymphoproliferative disorder. However, in this regard, generation and infusion of donor-derived, virus-specific T-cell lines or clones represents a more sophisticated and safer approach for treatment of viral complications occurring in **immunocompromized** patients. Whereas too few clin. trials have been performed so far to draw any firm conclusion, based on animal studies dendritic cell-based **immunotherapy** holds promises of exerting an effective anti-tumor activity. Despite dendritic cells not being **immunogenic**, induction on their surface of co-stimulatory mols. or generation of leukemic dendritic cells may induce antileukemic cytotoxic T-cell **responses**. Tumor cells express a variety of antigens and can be genetically manipulated to become **immunogenic**. The main in vitro and in vivo functional characteristics of marrow mesenchymal stem cells (MSCs) with particular emphasis on their hematopoietic regulatory role are reviewed. In addn., prerequisites for clin. applications using culture-expanded mesenchymal cells are discussed. The opportuneness of using LAK cells or activated natural killer (NK) cells in hematol. patients with low tumor burden (e.g. after stem cell **transplantation**) should be further explored. Moreover the role of new cytokines in enhancing the antineoplastic activity of NK cells and the infusion of selected NK in alternative to CTL for **graft vs. leukemia** (GVL) disease (avoiding **graft vs. host** disease (GVHD)) seems very promising. Sepn. of GVL from GVHD through generation and infusion of leukemia-specific T-cell clones or lines is one of the most intriguing and promising fields of investigations for the future. Like-wise, strategies devised to improve **immune**-reconstitution and restore specific anti-infectious functions through either induction of unresponsiveness to recipient alloantigens or removal of alloreactive donor T-cells might increase the specificity and success of hematopoietic stem cell **transplantation**. Cellular **immunotherapy** with DC must be standardized and several points, discussed in the chapter, have to be properly addressed with specific clin. studies. Stimulation of leukemic cells via CD41 receptor and transduction of tumor cells with co-stimulatory mols. and/or cytokines may be useful to prevent a tumor escaping **immune** surveillance. Tumor cells can be genetically modified to interact directly with dendritic cells in vivo or recombinant antigen can be delivered to dendritic cells using attenuated bacterial vectors for oral vaccination. MSCs represent an attractive therapeutic tool capable of playing a role in a wide range of clin. applications in the context of both cell and gene therapy strategies.

ST review hematopoietic cell immunotherapy **transplant**

- IT Lymphoproliferative disorders  
(Epstein-Barr virus-induced posttransplant; cell therapy: achievements and perspectives)
- IT Immunostimulants  
(adjuvants; cell therapy: achievements and perspectives)
- IT **Transplant and Transplantation**  
(allotransplant; cell therapy: achievements and perspectives)
- IT **Dendritic cell**  
Gene therapy  
Hematopoietic precursor cell  
Human herpesvirus 4  
Immunodeficiency  
Immunotherapy  
Melanoma  
T cell (lymphocyte)  
(cell therapy: achievements and perspectives)
- IT Cytokines  
Lymphokines  
RE: BCU (Biological study, unclassified ; BIDL (Biological study)  
(cell therapy: achievements and perspectives)
- IT **Neuroglia**  
(glioblastoma; cell therapy: achievements and perspectives)
- IT **Transplant and Transplantation**  
(graft-vs.-host reaction; cell therapy: achievements and perspectives)
- IT Lymphocyte  
(killer cell; cell therapy: achievements and perspectives)
- IT Bone marrow  
(mesenchymal stem cell; cell therapy: achievements and perspectives)
- IT Leukemia  
(myelogenous; cell therapy: achievements and perspectives)
- IT Neoplasia  
(solid; cell therapy: achievements and perspectives)
- IT Mesenchyme  
(stem cell, bone marrow; cell therapy: achievements and perspectives)
- IT Lymphocyte  
(tumor-infiltrating; cell therapy: achievements and perspectives)

RE.CNT 336 THERE ARE 336 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Aegerter, P; J Natl Cancer Inst 1991, V83, P332 MEDLINE
- (2) Aglietta, M; Haematologica 1993, Vol, P224 MEDLINE
- (3) Akagi, J; J Immunother 1997, V20, P15 HCAPLUS
- (4) Alcantar, L; Nature 1993, V363, P88
- (5) Alci, N; Blood 1996, V87, P1990 HCAPLUS
- (6) Arcese, W; Haematologica 1998, V83, P154 HCAPLUS
- (7) Archimand, E; Br J Haematol 1991, V87, P328 MEDLINE
- (8) Arlenti, F; Hum Gene Ther 1996, V7, P1915 MEDLINE
- (9) Ashton, B; Clin Orthop 1990, V261, P194
- (10) Attal, M; Blood 1995, V86, P1619 HCAPLUS
- (11) Aversa, F; Blood 1994, V84, P2848 MEDLINE
- (12) Falch, C; Arch Surg 1990, V125, P260
- (13) Fancher, J; Nature 1998, V392, P245
- (14) Fani, M; J Natl Cancer Inst 1991, V83, P119 MEDLINE
- (15) Farda-Saad, M; Exp Hematol 1990, V24, P386 MEDLINE
- (16) Farlozzari, T; J Immunol 1983, V131, P1024 HCAPLUS
- (17) Farrett, A; Blood 1996, V86(Suppl 1, P460
- (18) Farrett, A; Br J Haematol 1990, V83, P754 MEDLINE
- (19) Faria, R; J Exp Med 1991, V173, P647 HCAPLUS
- (20) Fasse, P; Tumor Immunology and Cancer Therapy 1994, P149 MEDLINE
- (21) Beaujean, F; Bone Marrow Transplant 1995, V15, P691 MEDLINE
- (22) Fender, A; J Immunol Methods 1996, V196, P121 HCAPLUS
- (23) Fennet, J; J Cell Sci 1991, V99, P131
- (24) Fennet, S; Nature 1993, V354, P476

- (25) Bertolini, F; Haematologica 1997, V82, P220 MEDLINE
- (26) Bhargava, N; J Clin Invest 1994, V94, P197 MEDLINE
- (27) Bhargava, N; J Exp Med 1997, V179, P653 HCAPLUS
- (28) Boccia, M; Blood 1995, V85, P16-8 HCAPLUS
- (29) Boccia, M; Blood 1996, V87, P16-8 HCAPLUS
- (30) Borkowski, D; J Exp Med 1996, V184, P14-1 HCAPLUS
- (31) Bort, D; Cancer Res 1998, V58, P44-9 MEDLINE
- (32) Bort, C; Blood 1996, V87, P16-8
- (33) Bort, C; Science 1997, V276, P1770 HCAPLUS
- (34) Bort, T; Cancer Surv 1997, V19, P1-1 HCAPLUS
- (35) Bort, T; J Exp Med 1996, V184, P14-1 HCAPLUS
- (36) Brimacombe, C; Hum Gene Ther 1996, V7, P13 MEDLINE
- (37) Brysiewicz, L; Lancet 1997, V349, P1128 MEDLINE
- (38) Bruni, V; Nature 1993, V361, P799 HCAPLUS
- (39) Campbell, M; J Immunol 1999, V163, P123 MEDLINE
- (40) Cantwell, M; Blood 1996, V87, P16-8 HCAPLUS
- (41) Cardoso, A; Blood 1996, V87, P16-8 HCAPLUS
- (42) Cardoso, A; Blood 1997, V89, P16-8 HCAPLUS
- (43) Carlo-Stella, P; Blood 1997, V89(Suppl 1), P2590
- (44) Carlo-Stella, P; Haematologica 1997, V82, P573 MEDLINE
- (45) Castro-Malaspina, H; Blood 1997, V89, P16-8 MEDLINE
- (46) Chak, C; Nature 1997, V387, P16-8 HCAPLUS
- (47) Cavazzana-Calvo, M; Blood 1994, V84, P1-8 MEDLINE
- (48) Cavazzana-Calvo, M; Transplantation 1997, V60, P1 HCAPLUS
- (49) Celli, M; J Exp Med 1996, V184, P14-1 HCAPLUS
- (50) Celli, C; J Exp Med 1996, V184, P14-1 HCAPLUS
- (51) Cervantes, F; Blood 1996, V87, P16-8 HCAPLUS
- (52) Chen, L; Cell 1997, V89, P1123 HCAPLUS
- (53) Choudhury, A; Blood 1997, V89, P1123 HCAPLUS
- (54) Choudhury, A; Brit Rev Immunol 1997, V17, P121 HCAPLUS
- (55) Clabone, E; Immunol Today 1996, V17, P471
- (56) Clerici, F; Blood 1998, V91, P16-8
- (57) Collins-RH, J; J Clin Invest 1997, V99, P133
- (58) Colombo, M; Immunol Today 1998, V19, P149 HCAPLUS
- (59) Colombo, M; J Exp Med 1997, V185, P16-8 HCAPLUS
- (60) Colonna, M; Nature 1998, V391, P16-8 HCAPLUS
- (61) Coralli, P; Blood 1997, V89(Suppl 1), P16-8
- (62) Coralli, P; Blood 1997, V89(Suppl 1), P16-8
- (63) Coralli, P; J Immunol 1997, V158, P16-8 HCAPLUS
- (64) Daniels, E; J Exp Med 1994, V180, P16-8 HCAPLUS
- (65) Luzzi, F; Bone Marrow Transplant 1997, V11(Suppl 1), P570
- (66) Luzzi, H; Bone Marrow Transplant 1997, V11, P193 MEDLINE
- (67) Dexter, T; Leukemia 1997, V8, P16-8 MEDLINE
- (68) Di Nicola, M; Cancer Gene Ther 1998, V5, P1 HCAPLUS
- (69) Dilek, A; Blood 1997, V89, P16-8 HCAPLUS
- (70) Ehrlich, K; J Immunol Methods 1997, V199, P1 MEDLINE
- (71) Fiedyski, W; Blood 1997, V89, P16-8 MEDLINE
- (72) Fontana-Jannopoulos, F; Blood 1997, V89, P16-8 HCAPLUS
- (73) Fontana-Jannopoulos, F; Blood 1997, V89, P16-8 HCAPLUS
- (74) Fontana, B; Genes Chromosomes Cancer 1997, V49, P215 MEDLINE
- (75) Fontana, A; Cancer Res 1997, V57, P16-8 HCAPLUS
- (76) Fontana, B; Proceedings of American Society of Clinical Oncology 1991, V10, P527a
- (77) Fontana, L; Blood 1996, V87, P16-8 HCAPLUS
- (78) Fontana, L; J Clin Invest 1997, V99, P16-8 HCAPLUS
- (79) Fontana, L; J Exp Med 1997, V185, P16-8 HCAPLUS
- (80) Fontana, J; Blood 1997, V89(Suppl 1), P16-8
- (81) Fontana, J; Immunol Rev 1997, V158, P123 MEDLINE
- (82) Fontana, A; Acta Haematol 1998, V89, P1
- (83) Fontana, F; Eur J Immunol 1997, V26, P16-8 HCAPLUS
- (84) Fisher, E; J Clin Oncol 1989, V7, P16-8 MEDLINE
- (85) Flamand, V; Eur J Immunol 1994, V24, P105 MEDLINE
- (86) Forni, G; J Immunother 1993, V14, P251 MEDLINE

- (87) Friedenstein, A; Cell Tissue Kin-t 1970, V5, P393 MEDLINE
- (88) Funakoshi, S; Blood 1994, V83, P1787 HCAPLUS
- (89) Gaborovich, D; Nature Med 1996, V2, P1096 HCAPLUS
- (90) Ginnai, C; Proc Natl Acad Sci USA 1991, V88, P6586 HCAPLUS
- (91) Giralto, S; Blood 1991, V78, P1337
- (92) Goldman, J; Ann Intern Med 1981, V93, P806 MEDLINE
- (93) Gong, J; Gene Ther 1993, V1, P113
- (94) Gong, J; Nature Med 1995, V1, P113 HCAPLUS
- (95) Goodrich, J; Ann Intern Med 1987, V107, P113 MEDLINE
- (96) Gordon, M; Bone Marrow Transplant 1993, V11, P193 MEDLINE
- (97) Gordon, M; Nature 1993, V362, P403 HCAPLUS
- (98) Goulmy, P; Immunol Rev 1997, V144, P115 HCAPLUS
- (99) Granger, J; Lancet 1993, V341, P1366 MEDLINE
- (100) Gribben, J; Blood 1996, V87, P4337 HCAPLUS
- (101) Grifflin, J; J Clin Oncol 1989, V7, P151 MEDLINE
- (102) Grunthos, S; Hematology 1996, V1, P15 MEDLINE
- (103) Grunz, H; Nature 1993, V362, P130 HCAPLUS
- (104) Guenay, J; J Immunol 1991, V146, P111 HCAPLUS
- (105) Guinan, E; Blood 1994, V84, P1011 HCAPLUS
- (106) Haas, G; Cancer Immunol Immunother 1999, V30, P342 MEDLINE
- (107) Hale, G; Blood 1995, V85, P3770 HCAPLUS
- (108) Haque, T; J Immunol 1995, V155, P6784 HCAPLUS
- (109) Harada, M; Cancer Res 1995, V55, P6146 HCAPLUS
- (110) Hatch, M; Blood 1996, V87, P2251 MEDLINE
- (111) Haug, J; Blood 1991, V78, Suppl 10, P444
- (112) Hawkins, M; Prime Gene Oncol 1993, V3, P1
- (113) Hellstrom, K; Immunol Rev 1995, V144, P111 MEDLINE
- (114) Heo, D; Cancer Res 1997, V57, P6212 HCAPLUS
- (115) Hercberman, K; Int J Cancer 1978, V22, P11 MEDLINE
- (116) Heslop, E; Immunol 1991, V117, P217
- (117) Heslop, H; H Emu J 1994, V34, P27 MEDLINE
- (118) Heslop, H; Nature Med 1996, V2, P11 HCAPLUS
- (119) Herzig, M; Blood 1991, V78, P111 MEDLINE
- (120) Hohl, C; Blood 1995, V85, P1318 HCAPLUS
- (121) Hsu, F; Blood 1997, V89, P1118 HCAPLUS
- (122) Hsu, F; Nature Med 1996, V2, P11 HCAPLUS
- (123) Hu, K; Cancer Res 1996, V56, P4479 HCAPLUS
- (124) Huang, Y; Science 1994, V264, P961
- (125) Inaba, K; J Exp Med 1994, V179, P11 HCAPLUS
- (126) Inge, T; Cancer Res 1992, V52, P314 HCAPLUS
- (127) Janeway, C; Cell 1994, V78, P11 HCAPLUS
- (128) Janeway, C; Cell 1994, V78, P11 HCAPLUS
- (129) Jiang, J; Bone Marrow Transplant 1997, V14, P899
- (130) Jones, E; Eur J Immunol 1996, V26, P17 MEDLINE
- (131) Jorgensen, H; Nat Immunol 1997, V1, P166 MEDLINE
- (132) Kanejane, H; Blood 1996, V87, P11 HCAPLUS
- (133) Karre, K; Nature 1991, V351, P11 MEDLINE
- (134) Katsumoto, Y; Br J Cancer 1996, V73, P11 MEDLINE
- (135) Kaufmann, S; Ann Rev Immunol 1993, V11, P129 HCAPLUS
- (136) Korman, N; Blood 1994, V84, P111 MEDLINE
- (137) Korman, N; Blood 1997, V89, P1413 MEDLINE
- (138) Kimura, H; Cancer 1997, V80, P41 HCAPLUS
- (139) Klingemann, H; Exp Hematol 1994, V22, P1263 HCAPLUS
- (140) Koch, E; J Exp Med 1996, V184, P11 HCAPLUS
- (141) Folk, H; Blood 1996, V87, P1413 MEDLINE
- (142) Folk, H; Blood 1991, V78, P1041 HCAPLUS
- (143) Korkolopoulos, E; Br J Cancer 1996, V73, P148
- (144) Kradin, R; Lancet 1991, V337, P11 MEDLINE
- (145) Kurt-Jones, E; J Immunol 1993, V151, P3773 MEDLINE
- (146) Kushner, I; Proceedings of the American Association of Cancer Research 1994, V35, P1119a
- (147) Kuznetsov, V; Bull Math Biol 1994, V56, P295 MEDLINE
- (148) Landreth, R; J Immunol 1983, V130, P645 HCAPLUS

- (149) Lanier, L; Immunol Today 1990, V17, P86
- (150) Lanzavecchia, A; Nature 1991, V351, P527 MEDLINE
- (151) Lanzavecchia, A; Science 1993, V260, P937 HCAPLUS
- (152) Lauritzen, S; Int J Cancer 1991, V78, P216 HCAPLUS
- (153) Lebsack, M; Blood 1993, V81(suppl 1), P517
- (154) Lee, S; Blood 1990, V75, P418 HCAPLUS
- (155) Lee, S; Blood 1994, V83, P1371 MEDLINE
- (156) Lee, Y; J Exp Med 1990, V171, P611 HCAPLUS
- (157) Liso, A; Blood 1998, V91(suppl 1), P101
- (158) Locatelli, F; Eur J Haematol 1994, V78, P64 MEDLINE
- (159) Locatelli, F; Eur J Haematol 1995, V76, P221 MEDLINE
- (160) Lohrke, R; Blood 1997, V89, P4006 HCAPLUS
- (161) Lutz, E; Leukemia Res 1993, V11, P159 MEDLINE
- (162) Macatonia, S; J Immunol 1991, V146, P5671 HCAPLUS
- (163) MacKinnon, S; Blood 1993, V81, P1101 HCAPLUS
- (164) Macpherson, M; J Clin Invest 1996, V98, P1604 MEDLINE
- (165) Malik, S; Eur J Cancer 1993, V29, P1011 HCAPLUS
- (166) Manning, S; Blood 1994, V83, P290 HCAPLUS
- (167) Mansland, M; Int J Cancer 1995, V58, P881 MEDLINE
- (168) Margolin, P; J Clin Oncol 1999, V17, P216 MEDLINE
- (169) Matulis, U; Blood 1991, V78, P507 MEDLINE
- (170) Matulis, U; J Immunol 1994, V153, P1114 HCAPLUS
- (171) Matulis, U; Blood 1994, V83, P1114 HCAPLUS
- (172) Mayhew, J; Nature Med 1995, V1, P197 HCAPLUS
- (173) McAnany, D; Ann Surg Oncol 1995, V2, P498 MEDLINE
- (174) McEneaney, M; Proceedings of American Society of Clinical Oncology 1991, V10, P113
- (175) McGinnis, F; Exp Hematol 1991, V19, P194 MEDLINE
- (176) McLaughlin, J; Cancer Res 1997, V57, P1111
- (177) Meckan, F; Bone Marrow Transplant 1991, V10, P643
- (178) Medsger, P; Proc Royal Soc B 1993, V260, P119
- (179) Mehta, J; Bone Marrow Transplant 1997, V14, P709 MEDLINE
- (180) Meloni, F; Cell Biophys 1993, V21, P101 HCAPLUS
- (181) Merz, A; Hum Pathol 1997, V28, P111 MEDLINE
- (182) Metha Darani, A; J Immunol 1994, V153, P191
- (183) Mickey, R; Blood 1990, V75(suppl 1), P151
- (184) Miller, J; Blood 1994, V83, P1104 MEDLINE
- (185) Miller, J; Blood 1997, V89, P3103 HCAPLUS
- (186) Miller, J; Bone Marrow Transplant 1994, V14, P555 MEDLINE
- (187) Miller, J; J Hematology 1994, V1, P41 MEDLINE
- (188) Misery, L; Eur J Haematol 1992, V74, P17 MEDLINE
- (189) Mollema, J; Blood 1990, V75, P1450 HCAPLUS
- (190) Montagna, D; Blood 1994, V83, P555 HCAPLUS
- (191) Montagna, D; Bone Marrow Transplant 1995, V12, P743 MEDLINE
- (192) Moiten, F; Cancer Gene Ther 1994, V1, P17 HCAPLUS
- (193) Morrison, S; Cell 1997, V90, P111 HCAPLUS
- (194) Mortimer, R; Cancer Res 1997, V57, P1564 HCAPLUS
- (195) Morton, L; Ann Surg 1992, V216, P463 MEDLINE
- (196) Mrozek, R; Blood 1994, V83, P1562 HCAPLUS
- (197) Mukherji, B; Proc Natl Acad Sci USA 1995, V92, P8078 HCAPLUS
- (198) Murphy, C; Hematology 1993, V21, P1
- (199) Murphy, W; Immunol Rev 1991, V131, P101 HCAPLUS
- (200) Murray Low; Cancer 1995, V76, P421
- (201) Matis, T; Blood 1993, V81, P1571 HCAPLUS
- (202) Nagata, S; Nat Med 1996, V2, P1396 HCAPLUS
- (203) Nalesnik, M; Semin Thor Cardiovasc Surg 1996, V8, P139 MEDLINE
- (204) Nalesnik, M; Transplantation 1997, V63, P1900 HCAPLUS
- (205) Negrier, S; Eur J Cancer Clin Oncol 1993, V29(suppl 3), P221
- (206) Nestle, F; Nature Med 1996, V2, P323 HCAPLUS
- (207) Noel, P; J Immunol 1998, V161, P636 HCAPLUS
- (208) Noelle, R; Immunity 1996, V4, P415 HCAPLUS
- (209) Okada, K; Cancer Res 1996, V56, P1599 HCAPLUS
- (210) Olivieri, A; Blood 1997, V89, P4302a

- (211) Olivieri, A; Bone Marrow Transplant 1992, V21, PS65
- (212) Orntoft, S; J Clin Invest 1996, V97, P4 HCAPLUS
- (213) Owen, M; CIBA Found Symp 1988, V136, P4 MEDLINE
- (214) Owen, M; J Cell Sci 1988, V91, P141
- (215) O'Reilly, R; Curr Opin Hematol 1993, V1, P11
- (216) O'Reilly, R; Immunol Rev 1993, V137, P145 MEDLINE
- (217) Paglia, P; Blood 1992, V79, P132 HCAPLUS
- (218) Paglia, P; Eur J Immunol 1993, V23, P1444 HCAPLUS
- (219) Paglia, P; J Exp Med 1995, V181, P317 HCAPLUS
- (220) Papa, M; Cancer Res 1996, V56, P3003 HCAPLUS
- (221) Papadopoulos, E; N Engl J Med 1994, V331, P1149 MEDLINE
- (222) Papadopoulos, E; Blood 1995, V85, P1444 HCAPLUS
- (223) Parronchi, A; Leukemia 1994, V8, P1494 MEDLINE
- (224) Pawlacz, S; Blood 1996, V87, P1114 HCAPLUS
- (225) Phillips, K; Nature Med 1996, V2, P1184 HCAPLUS
- (226) Pierson, B; Blood 1996, V87, P1114 HCAPLUS
- (227) Porgador, A; J Immunol 1996, V156, P1014 MEDLINE
- (228) Porter, D; N Engl J Med 1994, V331, P1149 MEDLINE
- (229) Preissner, D; Science 1993, V261, P1114 HCAPLUS
- (230) Preamanti, P; Br J Haematol 1997, V99, P141 MEDLINE
- (231) Preamanti, E; Cell Immunol 1995, V161, P141 HCAPLUS
- (232) Preamanti, E; J Exp Med 1995, V177, P141 HCAPLUS
- (233) Patta, M; Br J Haematol 1996, V91, P141 HCAPLUS
- (234) Payner, A; J Natl Cancer Inst 1995, V87, P141 MEDLINE
- (235) Peeters, M; Cancer Res 1996, V56, P3071 HCAPLUS
- (236) Reid, C; J Immunol 1995, V155, P141 HCAPLUS
- (237) Rescigno, M; Proc Natl Acad Sci USA 1996, V93, P5229 HCAPLUS
- (238) Restifo, N; J Exp Med 1995, V181, P141 HCAPLUS
- (239) Reusser, P; Blood 1995, V85, P141 MEDLINE
- (240) Riddell, S; Ann Rev Immunol 1995, V13, P141 HCAPLUS
- (241) Riddell, S; Nature Med 1996, V2, P141 HCAPLUS
- (242) Riddell, S; Science 1995, V267, P141 MEDLINE
- (243) Riddle, J; Nature 1995, V374, P141
- (244) Robbins, P; Curr Opin Immunol 1996, V8, P141 HCAPLUS
- (245) Roberts, K; Cancer Res 1997, V57, P141 HCAPLUS
- (246) Robertson, M; J Exp Med 1995, V181, P141 HCAPLUS
- (247) Rodolfo, K; Cancer Immunol Immunother 1996, V45, P28 HCAPLUS
- (248) Rodolfo, K; Cancer Res 1996, V56, P3013 HCAPLUS
- (249) Rodolfo, M; to be published in Gene Therapy 1999
- (250) Roman, N; J Exp Med 1994, V180, P141 HCAPLUS
- (251) Roman, N; J Immunol Methods 1996, V196, P137 HCAPLUS
- (252) Ronchini, D; Blood 1996, V87, P141 HCAPLUS
- (253) Ronchini, D; Bone Marrow Transplant 1997, V21, P1183 MEDLINE
- (254) Rooney, C; Blood 1996, V87, P141 HCAPLUS
- (255) Rooney, C; Br J Haematol 1996, V99, P141 MEDLINE
- (256) Rooney, C; Lancet 1996, V347, P141 MEDLINE
- (257) Rosenberg, S; J Natl Cancer Inst 1995, V87, P195 MEDLINE
- (258) Rosenberg, S; J Natl Cancer Inst 1996, V88, P22 MEDLINE
- (259) Rosenberg, S; N Engl J Med 1997, V336, P1445 MEDLINE
- (260) Rosenberg, S; N Engl J Med 1998, V339, P1445 MEDLINE
- (261) Rosenberg, S; N Engl J Med 1999, V340, P1445 HCAPLUS
- (262) Rosenzweig, M; Blood 1996, V87, P141 HCAPLUS
- (263) Roskrow, M; Blood 1997, V89, P141 HCAPLUS
- (264) Rossi, A; Blood 1994, V83, P141 HCAPLUS
- (265) Rysgaard, K; Blood 1995, V86, P141 HCAPLUS
- (266) Sallgaller, M; Int Rev Immunol 1996, V13, P104 HCAPLUS
- (267) Sallgaller, F; J Exp Med 1994, V179, P141 HCAPLUS
- (268) Santiago-Schwarz, F; Blood 1994, V84, P141 HCAPLUS
- (269) Santos, G; Immunol Rev 1996, V137, P141 MEDLINE
- (270) Sasaki, A; Cancer Res 1996, V56, P3742 MEDLINE
- (271) Satch, M; J Immunol 1996, V156, P141 HCAPLUS
- (272) Scheffold, C; Bone Marrow Transplant 1995, V20, P43 MEDLINE
- (273) Schmidt-Wolf, I; Br J Haematol 1994, V87, P453 MEDLINE



- (274) Schoenberger, S; Nature 1992, V294, P437
- (275) Schofield, R; Blood Cells 1979, V4, P7 MEDLINE
- (276) Schultze, J; Blood 1997, V83, P806 HCAPLUS
- (277) Schultze, J; Blood Rev 1996, V10, P111 MEDLINE
- (278) Schultze, J; Iran Natl Acad Sci USA 1995, V32, P8200 HCAPLUS
- (279) Schwartz, E; J Exp Med 1996, V184, P1 HCAPLUS
- (280) Scott, M; Eur J Haematol 1995, V70, P72 MEDLINE
- (281) Serrida, P; Blood 1997, V89, P14
- (282) Shapiro, R; Blood 1997, V89, P1134 MEDLINE
- (283) Sherfield, C; Bone Marrow Transplant 1997, V13, P33
- (284) Shiloh, E; J Immunol 1997, V159, P1042
- (285) Siena, S; Exp Hematol 1996, V24, P1493 MEDLINE
- (286) Silva, M; Exp Hematol 1995, V23, P1693 MEDLINE
- (287) Simmons, P; Leuk Lymphoma 1994, V12, P553 MEDLINE
- (288) Sling, A; Blood 1997, V89, P1578 HCAPLUS
- (289) Slavin, S; Blood 1996, V87, P1195 HCAPLUS
- (290) Smith, W; Hum Immunol 1997, V55, P18 HCAPLUS
- (291) Smith, C; J Hematother 1995, V4, P413
- (292) Smith, C; J Virol 1996, V70, P671 HCAPLUS
- (293) Spiess, P; J Natl Cancer Inst 1997, V89, P107 HCAPLUS
- (294) Spinner, G; Curr Opin Oncol 1997, V4, P372 MEDLINE
- (295) Steinman, R; J Exp Med 1995, V181, P51 HCAPLUS
- (296) Strand, S; Mol Med Today 1996, V2, P1 HCAPLUS
- (297) Strunk, D; Blood 1997, V89, P1195 HCAPLUS
- (298) Strunk, D; Blood 1997, V89, P1195 HCAPLUS
- (299) Sullivan, K; N Engl J Med 1997, V337, P228 MEDLINE
- (300) Szabolcs, P; J Immunol 1997, V159, P8811 HCAPLUS
- (301) Tanaka, H; Annu Rev Immunol 1998, V16, P559 HCAPLUS
- (302) Tao, M; Nature 1993, V362, P713 HCAPLUS
- (303) Thomas, E; Ann Intern Med 1996, V124, P151 MEDLINE
- (304) Thompson, C; Cell 1997, V91, P575 HCAPLUS
- (305) Tiberghien, P; Blood 1994, V84, P1133 HCAPLUS
- (306) Torpey, D; J Immunol 1994, V152, P1111
- (307) Tosato, G; Adv Cancer Res 1997, V13, P1 HCAPLUS
- (308) Tsou, I; Blood 1994, V84, P855 MEDLINE
- (309) Townsend, S; Science 1996, V273, P66 HCAPLUS
- (310) Treisman, J; Blood 1993, V81, P13 HCAPLUS
- (311) Trentin, J; Regulation of Hematopoiesis 1970, V1, P161
- (312) Triest, G; Blood 1996, V87, P1195 HCAPLUS
- (313) Tsurushima, H; J Neurosurg 1996, V84, P338 MEDLINE
- (314) Valteau-Couanet, C; Transplantation 1996, V61, P1574 MEDLINE
- (315) van Kesteren, C; Curr Opin Immunol 1997, V9, P30 HCAPLUS
- (316) van Rhee, E; Blood 1994, V83, P877 MEDLINE
- (317) van der Bruggen, P; Science 1997, V274, P1643 HCAPLUS
- (318) Verfaillie, C; Blood 1994, V84, P133 MEDLINE
- (319) Verzeletti, S; Hematol Ther 1996, V1, P13
- (320) Vitale, A; Eur J Haematol 1996, V70, P10 HCAPLUS
- (321) Vogelbein, G; Blood 1994, V84, P103 MEDLINE
- (322) Vujanovic, N; Cell Immunol 1997, V151, P113
- (323) Wytch-Breese, P; Blood 1997, V89, P1195 HCAPLUS
- (324) Walter, E; N Engl J Med 1996, V335, P106 MEDLINE
- (325) Weiss, G; J Clin Invest 1997, V100, P371 MEDLINE
- (326) Winkler, C; J Exp Med 1996, V183, P317 HCAPLUS
- (327) Wolfel, T; Science 1996, V273, P131 MEDLINE
- (328) Wong, E; J Immunother 1997, V19, P13 MEDLINE
- (329) Kim, C; Transplantation 1995, V60, P311
- (330) Yang, Y; Science 1996, V273, P1644
- (331) Zellin, M; J Immunol 1994, V153, P356 HCAPLUS
- (332) Young, J; J Exp Med 1996, V183, P113 MEDLINE
- (333) Zhu, H; Cancer Res 1996, V56, P371 HCAPLUS
- (334) Zilberstein, C; J Exp Med 1996, V183, P133 HCAPLUS
- (335) Zittvogel, L; Eur J Immunol 1996, V26, P1305 HCAPLUS
- (336) Zutter, M; Blood 1988, V72, P420 MEDLINE

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AN 2000:68155 HCAPLUS

DN 132:106969

TI Chemokines as adjuvants of **immune response**

IN Caux, Christine; Vanbervliet, Baatrice; Lebecque, Serge; Vicari, Alain; Dieu, Marie-Caroline

PA Schering-Plough, Fr.

SO Eur. Pat. Appl., 16 pp.

O DEN: EPKXDW

DT Patent

LA English

IC I M A&amp;P 38-19

CC 11-5 Immunohistochemistry)

Section cross-reference(s): 5, 63

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| PATENT NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FIND DATE   | APPLICATION NO. | DATE     |
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| EP 974857                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A1 20000116 | EP 1998-401799  | 19980716 |
| B: AE, BE, CE, DE, EF, ES, FE, GE, GF, HI, LI, LU, NI, SE, MC, PT, IE, FI, LT, LV, FI, FO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                 |          |
| WO 200001729                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A1 20000117 | WO 1999-US14148 | 19990715 |
| W: AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UV, UW, UX, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ |             |                 |          |
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| US 200001491                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A1 20000117 | US 1001-768917  | 20010124 |
| WO 200001729                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A2 20000117 | WO 1001-US1849  | 20010124 |
| W: AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UV, UW, UX, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ |             |                 |          |

AB Dendritic cells play a crit. role in antigen-specific **immune responses**. Materials and methods are provided for treating disease states, including cancer and autoimmune disease, by facilitating or inhibiting the migration or activation of **antigen-presenting** dendritic cells. In particular, chemokines are used to initiate, amplify or modulate an **immune response**. In one embodiment, chemokines are used to attract dendritic cells to the site of antigen delivery. An increase no. of dendritic at the site of antigen delivery means more antigen uptake and a modified **immune response**.

ST Chemokine cytokine immune adjuvant antigen vaccine; cancer autoimmune disease infection **graft rejection**

IT Nucleic acid

EL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(CpG motif-contg.; chemokines as adjuvants for inducing antigen-specific **immune response**)

IT Chemokines

EL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(DC tactivin .beta.; chemokines as adjuvants for inducing antigen-specific **immune response**)

IT Chemokines  
 FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (MDC (macrophage-derived chemokine); chemokines as adjuvants for inducing antigen-specific **immune response**)

IT Mucins  
 FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (MUC 2; chemokines as adjuvants for inducing antigen-specific **immune response**)

IT Mucins  
 FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (MUC 3; chemokines as adjuvants for inducing antigen-specific **immune response**)

IT Mucins  
 FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (MUC 4; chemokines as adjuvants for inducing antigen-specific **immune response**)

IT Antigens  
 FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (MUC16; chemokines as adjuvants for inducing antigen-specific **immune response**)

IT Cytokines  
 FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (RIF-165; chemokines as adjuvants for inducing antigen-specific **immune response**)

IT Chemokines  
 FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (SDF-1 (stromal-derived factor-1); chemokines as adjuvants for inducing antigen-specific **immune response**)

IT Chemokines  
 FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 Teck; chemokines as adjuvants for inducing antigen-specific **immune response**)

IT Immunostimulants  
 adjuvants; chemokines as adjuvants for inducing antigen-specific **immune response**)

IT Antibodies  
 FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (anti-CD40; chemokines as adjuvants for inducing antigen-specific **immune response**)

IT Immunity  
 (antigen-specific; chemokines as adjuvants for inducing antigen-specific **immune response**)

IT Animal virus  
 Bacteria (Eubacteria)  
 Fungi  
 (antigen; chemokines as adjuvants for inducing antigen-specific **immune response**)

IT Infection  
 (bacterial; chemokines as adjuvants for inducing antigen-specific **immune response**)

IT Allergy  
 Antigen presentation  
 Autoimmune disease  
 Cell migration  
 Dendritic cell  
 Eye, neoplasm  
 Genetic vectors  
 Intestine, neoplasm  
 Kidney, neoplasm  
 Liver, neoplasm  
 Lung, neoplasm

Melanoma  
 Neoplasm  
 Ovary, neoplasm  
 Pancreas, neoplasm  
 Stomach, neoplasm  
 Testis, neoplasm  
 Thyroid gland, neoplasm

**Transplant rejection**

(chemokines as adjuvants for inducing antigen-specific **immune response**)

- IT CD40 (antigen)  
 FL: ESJ (Biological study, unclassified); BIOL (Biological study)  
 (chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Antigens  
 FL: ESJ (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Carcinoembryonic antigen  
 Chemokines  
 Cytokines  
 Hepatocyte growth factor receptors  
 Interleukin 4  
 Macrophage inflammatory protein 1.alpha.  
 Macrophage inflammatory protein 1.beta.  
 Icostate-specific antigen  
 FANTES (chemokine)  
 Tumor necrosis factors  
 alpha.-Fetoproteins  
 FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Intestine, neoplasm  
 (colon; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Intestine, neoplasm  
 (colorectal; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Uteris, neoplasm  
 (endometrium; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Mucins  
 FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (episialins; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Neuroglia  
 (glioblastoma; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Neuroglia  
 (glioma; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Glycoproteins, specific or class  
 FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (gp100; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Sialoglycoproteins  
 FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (gp75; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Liver, neoplasm  
 (hepatoma; chemokines as adjuvants for inducing antigen-specific **immune response**)

- IT Parasite  
(infection; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Drug delivery systems  
(injections, i.m.; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Drug delivery systems  
(injections, s.c.; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Drug delivery systems  
(intradermal; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Organ, animal  
(lymphoid; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Chemokines  
FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(macrophage inflammatory protein, 3.alpha.; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Antigens  
FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(melanoma-assocd., high mol. wt.; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Antigens  
FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(melanoma-assocd., melan A; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Antigens  
FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(melanoma-assocd.; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Transferrins  
FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(melanotransferrins; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Carcinoma  
(metastatic; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Chemokines  
FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(monocyte chemoattractant protein 3; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Cytokines  
FL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(monocyte chemoattractant protein 4; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Bladder  
Esophagus  
Head  
Mammary gland  
Neck, anatomical  
Prostate gland  
(neoplasm; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Drug delivery systems  
topical; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Antigens  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(tumor-assocd., DDC; chemokines as adjuvants for inducing antigen-specific **immune response**)
- IT Antigens  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

IT Antigens  
FL: THU (Therapeutic use); BIL (Biological study); USES (Uses)  
(tumor-associated, MAGE-12; chemokines as adjuvants for inducing  
antigen-specific immune response)

IT Antigens  
FL: THU (Therapeutic use); BICL (Biological study); USES (Uses)  
(tumor-assocd., MAGE-1; chemokines as adjuvants for inducing  
antigen-specific **immune response**)

IT Antigens  
 FL: THU (Therapeutic uses; BIL: Biological study; USES (Uses)  
 (tumour-ass. ad., MAGE-1; chemokines as adjuvant; for inducing  
 antigen-specific immune response)

IT Antigen:  
 IL: THU (Therapeutic use ; BIL Biological study ; USES (Uses)  
 (tumor-assist., MAGE-1; chemokines as adjuvant. for inducing  
 antigen-specific immune response)

IT Antigen.  
FL: THU (Therapeutic use); BIL (Biological study); USES (Uses)  
(tumor-assocd., MAGE-1; chemokines as adjuvants for inducing  
antigen-specific immune response)

IT Antigens:  
FL: THU (Therapeutic use); BIL (Biological study); USES (Uses)  
(tum.-assoc., MART-1; chemokines as adjuvant; for inducing  
antigen-specific immune response;

IT Antigens  
 IL: THU (Therapeutic use); BIL (Biological study); USES (Uses)  
 (tumor-associated, Tyri; chemokines as adjuvants for inducing  
 antigen-specific immune response)

IT Antigens  
FL: THU (Therapeutic use); BIL (Biological stud.,); USES (Uses)  
(tumor-assoc., Tyr2; chemokines as adjuvants for inducing  
antigen-specific immune response)

IT Antigens  
FL: THC (Therapeutic use); BIL (Biological study); USES (Uses)  
(tumor-assocd., K19; chemokines as adjuvants for inducing;  
antigen-specific immune response

IT Antigens:  
EL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(tumor-associated, pMEL 17; chemokines as adjuvants for inducing  
antigen-specific immune response.

IT Antigen.  
EL: THU (Therapeutic use); BL: L (Biological study); USES (Uses)  
tumor-asso., prostate specific membrane antigen; chemokines as  
adjuvants for inducing antigen-specific **immune**  
**response**)

IT Antigen:  
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
tumor-asso.; chemokines as adjuvants for inducing antigen-specific  
immune response)

IT Infection  
(viral; chemokines as adjuvants for inducing antigen-specific  
immune response)

IT 9002-10-2, Tyrosinase 9002-51-3 9031-28-1, Thyroperoxidase  
14215-68-0, ..alpha..-N-Acetylgalactosamine 83-69-56-1, GM-CSF  
RL: THU (Therapeutic use); BIOD (Biological study ; USES (Uses)  
(chemokin-s as adjuvants for inducing antigen-specific immune  
response)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
RE

RE  
(1) Dematos, P; J SURG ONCOL (UNITED STATES) 1998, V66(2), P79 MEDLINE

- (2) Fioretti, F; J IMMUNOL 1998, V161(1), P242 HCAPLUS  
 (3) Indiana University Foundation; WI 94133.1 A 1994 HCAPLUS  
 (4) Univ Texas; WD 94075.1 A 1994 HCAPLUS

L75 ANSWER 7 OF 13 HCAPLUS COPYRIGHT 2003 ACS

AN 1999:736887 HCAPLUS

DN 132:48718

TI Development of systemic immunity to **glioblastoma** multiforme using tumor cells genetically engineered to express the membrane-associated isoform of macrophage colony-stimulating factor  
 AU Graf, Martin R.; Jandus, Martin R.; Hirscht, John C.; Wepsic, H. Terry; Granger, Gale A.

CS Departments of Molecular Biology and Biochemistry, University of California, Irvine, CA, 92697, USA

SO Journal of Immunology (1999), 163(10), 5544-5551

CIDEN: JOIMAB; ISSN: 0022-1767

PB American Association of Immunologists

DT Journal

LA English

CC 15-2 (Immunochemistry)

AB We investigated the ability of Fischer rat T9 **glioblastoma** cells transduced with cDNA genes for the secreted (s) or membrane-assocd. (m) isoform of M-CSF to elicit an antitumor **response** when implanted into syngeneic animals. Intracranial (i.c.) implantation of 1.times.10<sup>5</sup> T9 cells expressing mM-CSF (T9/mM-CSF) resulted in 80% tumor rejection. Electron microscopy of the T9/mM-CSF tumor site, 2-4 days postimplantation, showed marked infiltration by macrophages, many of which were in phys. contact with the T9/mM-CSF cells. Animals that rejected T9/mM-CSF cells were resistant to i.c. rechallenge with T9 cells, but not syngeneic MAB106 breast adenocarcinoma cells, suggesting that T9-specific **immunity** can be generated within the brain via the endogenous APCs. Intracranial injection of parental T9, vector control (T9/LXSN), or T9 cells secreting M-CSF (T9/sM-CSF) was 100% fatal. S.c. injection of 1.times.10<sup>5</sup> T9/sM-CSF, T9/LXSN, or parental T9 cells resulted in progressive tumors. In contrast, T9/mM-CSF cells injected s.c. were destroyed in 7-10 days and animals developed systemic **immunity** to parental T9 cells. Passive transfer of CD3+ T cells from the spleens of **immune** rats into naive recipients transferred T9 glioma-specific **immunity**. In vitro, splenocytes from T9/mM-CSF-immunized rats specifically proliferated in **response** to various syngeneic glioma stimulator cells. However, only marginal T cell-mediated cytotoxicity was med. by these splenocytes in a CTL assay against T9 target cells, regardless of restimulation with T9 cells. **immunization** with viable T9/mM-CSF cells was effective in eradicating i.c. T9 tumors.

ST vaccine **glioblastoma** multiforme MCSF macrophage T lymphocyte

IT Gen., animal

EL: BFB (Biological process); BSU (Biological study, unclassified); (Biological study); ERO (Process)

CSF-1, membrane-assocd. isoform; development of systemic immunity

**glioblastoma** multiforme using tumor cells genetically engineered to express the membrane-assocd. isoform of M-CSF

IT Genetic engineering

Immunization

Macrophage

T cell (lymphocyte)

Vaccines

(development of systemic immunity to **glioblastoma** multiforme using tumor cells genetically engineered to express the membrane-assocd. isoform of M-CSF)

IT Neuroglia

Neuroglia

(**glioblastoma** multiforme, inhibitors; development

of systemic immunity to **glioblastoma multiforme**  
using tumor cells genetically engineered to express the  
membrane-assoc. isoform of M-CSF)

IT Antitumor agents

(**glioblastoma multiforme**; development of systemic immunity to  
**glioblastoma multiforme** using tumor cells genetically  
engineered to express the membrane-assoc. isoform of M-CSF)

IT Antigens

RL: B6B (Biological process); B6B (Biological study, unclassified); BIOL  
(Biological study); PRM (Process)

(tumor-assoc.; development of systemic immunity to  
**glioblastoma multiforme** using tumor cells genetically  
engineered to express the membrane-assoc. isoform of M-CSF)

IT 81627-83-0, Colony-stimulating factor 1

RL: B6B (Biological process); B6B (Biological study, unclassified); MFM  
(Metabolic formation); BIOL (Biological study); FORM (Formation,  
nonpreparative); H 3 (Index)

(membrane-assoc. isoform; development of systemic immunity to  
**glioblastoma multiforme** using tumor cells genetically  
engineered to express the membrane-assoc. isoform of M-CSF)

RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD

EE

- (1) Alterman, F; Mol Chem Neuroanatol 1984, V21, P177 HCAPLUS
- (2) Banati, F; Glia 1984, V1, P111 MEDLINE
- (3) Barlozzari, T; J Immunol 1985, V134, P2733 MEDLINE
- (4) Barth, R; J Neurosurg 1984, V60, P81 MEDLINE
- (5) Beckman, W; Cancer 1987, V78, P166
- (6) Benda, F; J Neurosurg 1981, V54, P110 HCAPLUS
- (7) Bibenik, J; Pharmacol Ther 1986, V30, P1 HCAPLUS
- (8) Colombo, M; Cancer Metastasis Rev 1987, V6, P421 HCAPLUS
- (9) Colombo, M; Immunol Today 1984, V5, P43 HCAPLUS
- (10) Dorsch, M; Eur J Immunol 1983, V13, P185 HCAPLUS
- (11) Iranshahi, G; Proc Natl Acad Sci USA 1985, V82, P5339 HCAPLUS
- (12) Fathzai, H; Proc Natl Acad Sci USA 1986, V83, P2909 HCAPLUS
- (13) Fujii, S; Blood 1989, V73, P413 HCAPLUS
- (14) Hansen, N; J Leukocyte Biol 1981, V30, P36 MEDLINE
- (15) Jasus, M; Blood 1989, V73, P413 HCAPLUS
- (16) Jasus, M; J Immunol 1989, V143, P411 HCAPLUS
- (17) Jasus, M; J Immunol 1987, V138, P419
- (18) Jasus, M; J Leukocyte Biol 1989, V69, P139 HCAPLUS
- (19) Jasus, M; Transplantation 1988, V45, P84 MEDLINE
- (20) Jennings, M; Int J Cancer 1981, V27, P129 HCAPLUS
- (21) Kikura, E; Exp Hematol 1986, V14, P160 HCAPLUS
- (22) Roth, F; J Exp Med 1986, V163, P13 HCAPLUS
- (23) Leenstra, S; J Neuroimmunol 1984, V6, P17 HCAPLUS
- (24) Liu, S; Lymphokine Cytokine Rev 1991, V10, P189 HCAPLUS
- (25) Mackensen, A; Cytokine Growth Factor Rev 1997, V8, P119 HCAPLUS
- (26) McBride, W; Anticancer Res 1986, V6, P113 HCAPLUS
- (27) McCombe, P; J Neuroimmunol 1984, V11, P153 HCAPLUS
- (28) Parcoll, D; Annu Rev Immunol 1986, V4, P339 HCAPLUS
- (29) Parcoll, D; Immunol Today 1986, V7, P10 MEDLINE
- (30) Parmant, G; Ecoli Biol 1986, V42, P17 MEDLINE
- (31) Fan, C; J Neurosurg 1984, V60, P55 HCAPLUS
- (32) Rose, G; Ann N Y Acad Sci 1986, V476, P193 MEDLINE
- (33) Rossi, M; Acta Neuropathol Berol 1987, V74, P269 MEDLINE
- (34) Saleman, M; Neurology Clin N Am 1990, V31, P49
- (35) Sampson, J; Neurology 1987, V37, P1368 MEDLINE
- (36) Sawada, M; Brain Res 1987, V450, P119 HCAPLUS
- (37) See Ho, W; J Immunol 1989, V143, P7341 MEDLINE
- (38) Stein, J; Blood 1989, V73, P413 MEDLINE
- (39) Stein, J; Oncogene 1991, V6, P691 HCAPLUS
- (40) Sutter, A; Pathobiology 1991, V59, P214 MEDLINE
- (41) Tepper, R; Cell 1989, V57, P533 HCAPLUS



- (42) Tepper, F; Cell 1990, V62, P457 HCAPLUS  
 (43) Testa, J; Cancer Res 1994, V54, P2778 HCAPLUS  
 (44) Tjuvajev, J; Cancer Res 1995, V55, P1902 HCAPLUS  
 (45) Tsunawaki, S; Nature 1988, V334, P260 HCAPLUS  
 (46) Ulvestad, E; J Leukocyte Biol 1994, V56, P112 HCAPLUS  
 (47) Walker, A; Neurology 1985, V35, P219 MEDLINE  
 (48) Walsh, P; J Natl Cancer Inst 1993, V87, P809 MEDLINE  
 (49) Yu, J; Cancer Res 1993, V53, P3125 HCAPLUS

L75 ANSWER = CF 13 HCAPLUS COPYRIGHT 2003 ACS

AN 1999:468593 HCAPLUS

DN 131:101258

T1 Materials and methods for treating oncological disease

IN Lawman, Patricia; Lawman, Michael J. P.

PA Morphogenesis, Inc., USA

SO PCT Int. Appl., 37 pp.

COBEN: PIXXD

DT Patent

LA English

IC INT. CO/K014-00

CC I5-1 (Immunochemistry)

Section cross-reference(s): 3

FAN.CNT 1

|      | PATENT NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|----------|
| PI   | WO 1999-0433                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A2   | 19990722 | WO 1999-0433    | 19990114 |
|      | WO 1999-0433                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A3   | 19990923 |                 |          |
|      | W: CA, JP, US                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |          |                 |          |
|      | FW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |                 |          |
|      | US 2001-01931                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A1   | 20011003 | US 2001-01931   | 20010910 |
| PRAI | US 1998-01497P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | P    | 19980114 |                 |          |
|      | WO 1999-0433                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A1   | 19990114 |                 |          |
|      | US 1999-04226                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | B1   | 19990913 |                 |          |
| AB   | <p>Novel methods are disclosed for treating oncol. disorders in an individual or animal using a superantigen expressed in tumor cells. A gene encoding a superantigen, such as an M-like protein of group A streptococci, can be introduced into a tumor cell in order to make the tumor cell more <b>immunogenic</b> in the host. Also contemplated are methods wherein a cell expresses a superantigen or superantigens, and <b>immunogenic</b> or <b>immunostimulatory</b> proteins, such as foreign MHC, cytokines, porcine-derived hyperacute rejection antigen, Mycobacterium-derived antigens, and the like. The subject invention also pertains to cells transformed with polynucleotides encoding a superantigen and foreign MHC antigen, cytokines, and other <b>immunogenic</b> or <b>immunostimulatory</b> proteins. Transformed cells according to the subject invention are then provided to an individual or animal in need of treatment for an oncol. disorder. The <b>immune response</b> to tumor cells transformed according to the present invention inhibits in vivo tumor growth and results in subsequent tumor regression. The subject invention also pertains to cell lines transformed with genes encoding a superantigen and, optionally, a foreign Class II MHC antigen and/or a cytokine.</p> |      |          |                 |          |
| ST   | oncol. disease superantigen transformed tumor cell; MHC cytokine superantigen immunogen cancer therapy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |                 |          |
| IT   | Proteins, specific or class                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |                 |          |
|      | FL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |                 |          |
|      | (M-like; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |                 |          |
| IT   | Histocompatibility antigens                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |                 |          |
|      | FL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |                 |          |

- THU (Therapeutic use); BICL (Biological study); PREP (Preparation); USES (Uses)  
(MHC (major histocompatibility complex), class I; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Histocompatibility antigens  
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); THU (Therapeutic use); BICL (Biological study); PREP (Preparation); USES (Uses)  
(MHC (major histocompatibility complex), class II, -I-E; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Histocompatibility antigens  
FL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); THU (Therapeutic use); BICL (Biological study); PREP (Preparation); USES (Uses)  
(MHC (major histocompatibility complex), class II; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Histocompatibility antigens  
FL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); THU (Therapeutic use); BICL (Biological study); PREP (Preparation); USES (Uses)  
(MHC (major histocompatibility complex), class III; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Histocompatibility antigens  
FL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); THU (Therapeutic use); BICL (Biological study); PREP (Preparation); USES (Uses)  
(MHC (major histocompatibility complex); transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Kidney, neoplasm  
(Wilms'; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Mycobacterium  
(antigen; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Neuroglia  
(glioblastoma; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Neuroglia  
(glioma; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Liver, neoplasm  
(hepatoma; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Antigens  
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); THU (Therapeutic use); BICL (Biological study); PREP (Preparation); USES (Uses)  
(hyperacute rejection; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Proteins, specific or class  
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); THU (Therapeutic use); BICL (Biological study); PREP (Preparation); USES (Uses)  
(immunostimulatory; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Brain, neoplasm  
(medulloblastoma; transformed tumor cells encoding a superantigen and a

- bacterial or eukaryotic protein for treating oncol. disease)
- IT Nerve, neoplasm  
(neuroblastoma; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Nucleic acids  
EL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(single- or double-stranded; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Antigens  
EL: BEN (Biosynthetic preparation); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(superantigens; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Adeno-associated virus  
Adenoviridae  
Antitumor agents  
Bacteria (Eubacteria)  
Brain, neoplasm  
Carcinoma  
Chemotherapy  
DNA sequences  
**Dendritic cell**  
Domestic animal  
Eukaryote (Eukaryotae)  
Genetic vectors  
Herpesviridae  
Leukemia  
Liposomes  
Lymphoma  
Melanoma  
Neoplasm  
Plasmids  
Retroviridae  
Radiotherapy  
Retroviridae  
Sarcoma  
Streptococcus group A  
Surgery  
Swine  
Virus  
(transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Antigens  
Cytokines  
DNA  
Gene, animal  
Gene, microbial  
Interleukin 1  
Interleukin 2  
Interleukin 3  
Interleukin 4  
Macrophage inflammatory protein 1.alpha.  
Macrophage inflammatory protein 1.beta.  
Polynucleotides  
Tumor necrosis factors  
EL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)

- IT Antibodies  
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Vaccines  
(tumor; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Antitumor agents  
-vaccines; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Transforming growth factors  
FL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PEP (Preparation); USES (Uses)  
.beta.-; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Interferons  
FL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PEP (Preparation); USES (Uses)  
.beta.-; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT Interferons  
FL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PEP (Preparation); USES (Uses)  
.gamma.-; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT 23075-03-8  
FL: PEP (Properties)  
nucleotide sequence; transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)
- IT 41869-56-1P, GM-CSF  
FL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PEP (Preparation); USES (Uses)  
(transformed tumor cells encoding a superantigen and a bacterial or eukaryotic protein for treating oncol. disease)

L75 ANSWER 9 OF 13 HCAPLUS COPYRIGHT 2003 ACS

AN 1999:257595 HCAPLUS

DN 131:57611

TI Human glioma-induced immunosuppression involves soluble factor(s) that alters monocyte cytokine profile and surface markers

AU Zou, Jian-Ping; Morford, Lorri A.; Chougnet, Claire;  
Dix, Amy E.; Brooks, Andrew G.; Torres, Naomi; Shuman, Jon D.;  
Coligan, John E.; Brooks, William R.; Rowman, Thomas L.;  
Shearer, Gene M.

CS Experimental Immunology Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD, 20892, USA

SO Journal of Immunology (1999) 162(8), 4632-4642

CODEN: JOIMAS; ISSN: 0022-1767

PB American Association of Immunologists

DI Journal

LA English

CC 15-5 (Immunochimistry)

AB Patients with glioma exhibit deficient in vitro and in vivo T cell immune activity, and human glioblastoma culture supernatants (GCS) inhibit in vitro T lymphocyte responses. Because APC are essential for initiating and regulating T cell responses, we investigated whether GCS would affect cytokines produced by monocytes and T cells from healthy donors of PBMC. Incubation of PBMC with GCS decreased prodn. of IL-12, IFN-.gamma., and TNF-.alpha., and increased prodn. of IL-6 and IL-10. The GCS-induced changes in IL-12

and IL-10 occurred in monocytes, and involved changes in IL-12 p40 and IL-10 mRNA expression. Incubation with GCS also resulted in reduced expression of MHC class II and of CD80/86 costimulatory mols. on monocytes. The **immunosuppressive** effects were not the result of IL-6 or TGF-beta.1 that was detected in GCS. However, it was due to a factor(s) that is resistant to pH extremes, differentially susceptible to temp., susceptible to trypsin, and has a min. mol. mass of 40 kDa. Our findings show that **glioblastoma**-generated factor(s) that are known to suppress T cell **responses** alter the cytokine profiles of monocyte APC that, in turn, inhibit T cell function. This model indicates that monocytes can serve as an intermediate between tumor-generated **immune**-suppressive factors and the T cell **responses** that are suppressed in gliomas.

- ST glioma immunosuppression immunosuppressive factor monocyte cytokine  
IT Histocompatibility antigens  
FL: BOC (Biological occurrence); BSU (Biological study, unclassified);  
BIOL (Biological study); OCCU (Occurrence)  
(MHC (major histocompatibility complex), class II; human glioma-induced immunosuppression involves sol. factors that alter monocyte cytokine profile and surface markers)
- IT **Neuroglia**  
glioblastoma; human glioma-induced immunosuppression involves sol. factors that alter monocyte cytokine profile and surface markers)
- IT Neuroglia  
glioma; human glioma-induced immunosuppression involves sol. factors that alter monocyte cytokine profile and surface markers
- IT Immunosuppression  
**Monocyte**  
(human glioma-induced immunosuppression involves sol. factors that alter monocyte cytokine profile and surface markers)
- IT CD80 antigen  
CD86 antigen  
FL: BOC (Biological occurrence); BSU (Biological study, unclassified);  
BIOL (Biological study); OCCU (Occurrence)  
(human glioma-induced immunosuppression involves sol. factors that alter monocyte cytokine profile and surface markers)
- IT Interleukin 10  
FL: BSU (Biological study, unclassified); MEM (Metabolic formation); BIOL (Biological study); FFM (Formation, nonpreparative)  
(human glioma-induced immunosuppression involves sol. factors that alter monocyte cytokine profile and surface markers)
- IT Interleukin 12  
FL: BSU (Biological study, unclassified); MEM (Metabolic formation); BIOL (Biological study); FFM (Formation, nonpreparative)  
(human glioma-induced immunosuppression involves sol. factors that alter monocyte cytokine profile and surface markers)
- IT Interleukin 6  
FL: BSU (Biological study, unclassified); MEM (Metabolic formation); BIOL (Biological study); FFM (Formation, nonpreparative)  
(human glioma-induced immunosuppression involves sol. factors that alter monocyte cytokine profile and surface markers)
- IT Tumor necrosis factors  
FL: BSU (Biological study, unclassified); MEM (Metabolic formation); BIOL (Biological study); FFM (Formation, nonpreparative)  
(human glioma-induced immunosuppression involves sol. factors that alter monocyte cytokine profile and surface markers)
- IT T cell (lymphocyte)  
(human glioma-induced immunosuppression involves sol. factors that alter monocyte cytokine profile and surface markers in relation to)
- IT cytokines  
FL: EAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(immunosuppressive; human glioma-induced immunosuppression involves sol. factors that alter monocyte cytokine profile and surface markers)

IT Interferons

PL: BSU (Biological study, unclassified); MEM (Metabolic formation); BIOL (Biological study); FPM (Formation, preparative)

(gamma.; human glioma-induced immunosuppression involves sol. factors that alter monocyte cytokine profile and surface markers)

PERCENT 00 THERE ARE 00 CITED REFERENCES AVAILABLE FOR THIS RECORD

EE

- (1) Agrawal, B; Nat Med 1998, V4, P43 HCAPLUS
- (2) Anelisen, J; Immunol Today 1991, V12, P38 HCAPLUS
- (3) Banchemau, J; Nature 1998, V392, P441 HCAPLUS
- (4) Behrens, B; Cancer Res 1987, V47, P414 HCAPLUS
- (5) Blandeley, M; J Neurosurg 1988, V68, P389 MEDLINE
- (6) Bremer, S; J Immunol 1989, V143, P323 HCAPLUS
- (7) Best, K; J Immunol 1995, V154, P718 HCAPLUS
- (8) Brooks, W; J Exp Med 1973, V136, P131 MEDLINE
- (9) Brooks, W; J Neurosurg 1981, V54, P31 MEDLINE
- (10) Chen, Q; Int J Cancer 1994, V55, P355 HCAPLUS
- (11) Chagnon, C; J Infect Dis 1996, V174, P49 MEDLINE
- (12) Chagnon, C; Res Immunol 1996, V147, P618
- (13) Clerici, M; J Clin Invest 1994, V93, P498 MEDLINE
- (14) Clerici, M; J Immunol 1991, V146, P2181 MEDLINE
- (15) Clerici, M; J Natl Cancer Inst 1990, V82, P445
- (16) Clerici, M; J Natl Cancer Inst 1988, V80, P1061 MEDLINE
- (17) De Ridder, L; Acta Neuropathol (Berl) 1987, V72, P207 MEDLINE
- (18) De Waal Malefyt, F; J Exp Med 1991, V174, P415 MEDLINE
- (19) Denfeld, R; Int J Cancer 1995, V56, P159 MEDLINE
- (20) Denis, M; AIDS Res Hum Retroviruses 1994, V10, P1619 MEDLINE
- (21) Ding, L; J Immunol 1991, V146, P1794 HCAPLUS
- (22) Dix, A; Keystone Symposium on Molecular and Cellular Biology: T Lymphocyte Activation, Differentiation, and Death 1988, P95
- (23) Fadhane, A; AIDS Res Hum Retroviruses 1996, V12, P385 HCAPLUS
- (24) Elliott, L; J Clin Invest 1993, V91, P88 HCAPLUS
- (25) Elliott, L; J Immunol 1994, V152, P1181 MEDLINE
- (26) Elliott, L; J Natl Cancer Inst 1990, V82, P419
- (27) Elliott, L; J Neurochem 1991, V57, P1 MEDLINE
- (28) Fontana, A; Nature 1984, V307, P373 HCAPLUS
- (29) Fox, F; J Invest Dermatol 1997, V108, P43 HCAPLUS
- (30) Frei, F; Eur J Immunol 1987, V17, P1371 HCAPLUS
- (31) Fujiwara, H; Immunol Res 1995, V19, P71 HCAPLUS
- (32) Fujiwara, H; Res Immunol 1996, V146, P33 HCAPLUS
- (33) Gross, H; Immunol Today 1997, V18, P110 HCAPLUS
- (34) Hishii, M; Neurosurgery 1996, V39, P1101 MEDLINE
- (35) Huang, M; Cancer Res 1995, V55, P14 HCAPLUS
- (36) Huettner, C; Am J Pathol 1991, V136, P17 HCAPLUS
- (37) Inghetti, L; Science 1991, V254, P100 HCAPLUS
- (38) Palinski, P; J Immunol 1997, V158, P1 HCAPLUS
- (39) Liu, J; J Immunol 1991, V146, P1448 HCAPLUS
- (40) Polenko, V; J Immunol 1997, V158, P388 HCAPLUS
- (41) Pruger-Krasagakes, U; Br J Cancer 1994, V70, P1182 MEDLINE
- (42) Libraty, D; J Clin Invest 1997, V99, P136 HCAPLUS
- (43) Mahaley, M; J Neurosurg 1977, V46, P403
- (44) Merigi, A; Hum Pathol 1997, V28, P421 MEDLINE
- (45) Morford, L; J Immunol 1997, V158, P411 HCAPLUS
- (46) Morton, D; Am Surg 1991, V57, P468 MEDLINE
- (47) Nakagomi, H; Int J Cancer 1995, V55, P466 HCAPLUS
- (48) Nestle, F; Nat Med 1997, V3, P31 HCAPLUS
- (49) Pericle, F; J Immunol 1991, V146, P33 HCAPLUS
- (50) Rosenburg, S; Nat Med 1998, V4, P31 HCAPLUS
- (51) Rossman, T; J Neurosurg 1987, V67, P74 HCAPLUS
- (52) Shearer, G; Immunity 1998, V9, P67 HCAPLUS
- (53) Smith, D; Am J Pathol 1994, V143, P18 MEDLINE

- (54) Tartour, E; J Natl Cancer Inst 1998, V90, P287 MEDLINE  
 (55) Urbani, F; J Interferon Cytokine Res 1995, V15, P421 HCAPLUS  
 (56) Van der Pouw Kraan, T; J Exp Med 1995, V181, P771 HCAPLUS  
 (57) Windhagen, A; J Exp Med 1995, V183, P1945 HCAPLUS  
 (58) Wrann, M; EMBO J 1987, V6, P1533 HCAPLUS  
 (59) Sou, J; Int Immunol 1995, V7, P1145 HCAPLUS  
 (60) Zwilling, B; AIDS 1991, V5, P1327 MEDLINE

L75 ANSWER 10 OF 13 HCAPLUS COPYRIGHT 2003 ADS

AN 1998100314 HCAPLUS

DN 113:1-0314

TI Human **glioblastoma** cell line 86HG39 activates T cells in an antigen specific major histocompatibility complex class II-dependent manner

AU Daubener, Walter; Tennati, Samira Seghrouchni; Wernet, Peter; Bilzer, Thomas; Fischer, Hans Georg; Hadding, Ulrich

CS Inst. Med. Mikrobiol. Virol., Heinrich-Heine-Univ., Duesseldorf, D-4000, Germany

SO Journal of Neuroimmunology (1998), 11(1), 21-8

CODEN: JNSPIDW; ISSN: 0165-5728

DF Journal

LA English

CC 15-10 (Immunohistochemistry)

AB The capacity of 3 different human **glioblastoma** cell lines to activate human T cells was analyzed by measuring major histocompatibility complex (MHC) antigen expression, monokine secretion, and lectin, monoclonal antibody (mAb) OKT3, and antigen-driven T cell proliferation. All **glioblastoma** cells tested were able to induce PHA and Con A-driven T cell proliferation in a dose-dependent fashion, while all failed to induce T cell activation with mAb OKT3. In addn., the **glioblastoma** cell line 86HG39 induced tetanus toxoid and toxoplasma lysate antigen-specific T cell proliferation. The responding T cell lines originated from only 1 out of 5 different donors. This foreign antigen-specific T cell proliferation induced by 86HG39 cells was inhibited with mAb L243 directed against HLA-DR mols. Study of monokine secretion by 86HG39 cells showed a strong interleukin (IL)-6 secretion after lipopolysaccharide (LPS) treatment, while no IL-1 secretion was obsd. Furthermore, only 86HG39 cells were pos. for HLA-DR mols., whereas interferon (IFN) gamma treatment of 37HG28 and 37HG31 cells was necessary for the induction of class II antigen expression. Thus, cell line 86HG39 shows many features of an **antigen presenting cell** and the interaction of these cells with MHC compatible human T cells might be a useful model to study cellular immune reactions within the central nervous system.

ST **glioblastoma** T lymphocyte antigen presentation HLA

IT Animal cell line

(86HG39, antigen-specific T-cell activation by human, class II antigen-dependent, antigen presentation in relation to)

IT Antigens

FL: PROC (Process)

(presentation of, by human **glioblastoma** cell line)

IT Histocompatibility antigens

FL: BIOL (Biological study)

(HLA, class II, **glioblastoma** cell line activation of human antigen-specific T-cells dependent on, antigen presentation in relation to)

IT Histocompatibility antigens

FL: BIOL (Biological study)

(HLA-DR, **glioblastoma** cell line activation of human antigen-specific T-cells dependent on, antigen presentation in relation to)

IT Lymphocyte

(T-cell, activation of human antigen-specific, by **glioblastoma**)

cell line, class II antigen-dependent, antigen presentation in relation to)

- IT Lym:okines and Cytokines  
PL: PROC (Process)  
interleukin 1, secretion of, by antigen-presenting **glioblastoma** cell line, of humans)
- IT Lym:okines and Cytokines  
PL: BIOL (Biological study)  
interleukin 6, secretion of, lipopolysaccharide induced, by antigen-presenting **glioblastoma** cell line, of humans)
- IT **Neuroglia**  
neoplasm, **glioblastoma**, antigen-specific T-cell activation by cell line of human, class II antigen-dependent, antigen presentation in relation to)
- IT 140: 3-64-6  
EL: ADV (Adverse effect, including toxicity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
human **glioblastoma** cell line 86H639 activates T cells in antigen-specific major histocompatibility complex class II-dependent manner)

L75 ANSWER 11 OF 13 HCAPLUS COPYRIGHT 2003 ACS

AN 1990:629106 HCAPLUS

DN 113:229106

TI Adult human glial cells can present target antigens to HLA-restricted cytotoxic T-cells

AU Phil-Jalbut, Suhayl; Kufta, Conrad V.; Flerlage, Marjorie; Shimojo, Naoki; McFarland, Henry F.

CS Neur:Immunol. Branch, Natl. Inst. Neurol. Disord. Stroke, Bethesda, MD, 20892, USA

SO Journal of Neuroimmunology (1990), 29(1-3), 203-11

CODEN: JNRIOW; ISSN: 0165-5728

BT Journal

LA English

CC 15-2 (Immunocytochemistry)

AB T-lymphocyte recognition of antigen either on **antigen-presenting cells (APC)** necessary for the generation of an **immune response** or on target cells during the effector phase of a cellular **immune response** requires expression of HLA mols. Although **immune** mechanisms operate in many disease processes of the central nervous system (CNS), cells of the CNS generally express low levels of HLA mols. In this study, the potential for upregulation of HLA mols. on adult human glial cells was examined. The functional implication of this upregulation was assessed by the capacity of glial cells to process and present target antigens to HLA class I-restricted influenza-specific and class II-restricted **myelin basic protein (MBP)**-specific CTL lines. Glial cells cultured from adult human surgical brain specimens or cells from established **glioblastoma** multiforme cell lines were studied. Lysis by antigen-specific CTLs was dependent on treatment of the target cell with interferon-gamma. The lysis was HLA restricted and antigen specific. The results indicate that adult human glial cells can process and present antigen to HLA-restricted CTLs but require the upregulation of HLA mols. These findings have implications for infectious and autoimmune diseases of the CNS.

ST glia **antigen presentation** cytotoxic T lymphocyte

IT Neur:glia  
(target **antigen presentation** by, to cytotoxic T lymphocyte, HLA antigen restriction in)

IT Antigens

EL: BIOL (Biological study)

(target, presentation of, by glial cells to cytotoxic T cells)

IT Antigens



- PL: BIOL (Biological study)  
(HLA, restriction by, in glial cell presentation of target antigens to cytotoxic T cells)
- IT **Phospholipoproteins**  
PL: BIOL (Biological study)  
(**MBP (myelin basic protein)**, cytotoxic T cells specific for, glial cells presentation of antigen to)
- IT Lymphocyte  
(T-, cytotoxic, target **antigen presentation** to, by glial cells, HLA restriction in)
- IT Virus, animal  
(influenza, cytotoxic T cells specific for, glial cells presentation of antigen to)
- IT Interferons  
PL: BIOL (Biological study)  
(gamma., target cell lysis by antigen-specific cytotoxic T lymphocyte dependent on)

L75 ANSWER 12 OF 13 HCAPLUS COPYRIGHT 2003 ACS

AN 1989:229869 HCAPLUS

DN 110:229869

TI **Glioblastoma**-cell-derived T-cell suppressor factor (G-TsF).  
Sequence analysis and biologic mechanism of G-TsF

AU Siepl, C.; Bodmer, S.; Hofer, E.; Wrana, M.; Frei, K.; Fontana, A.  
CS Dep. Neurosurg., Univ. Hosp., Zurich, Switz.

SO Annals of the New York Academy of Sciences (1988), 540(Adv. Neuroimmunol.), 437-9

CODEN: ANYAA9; ISSN: 0077-8923

DT Journal

LA English

CC 15-5 (Immunochemistry)

AB It was recently demonstrated that human **glioblastoma** cell line 308 releases a factor into the culture medium, termed **glioblastoma**-derived T cell suppressor factor (G-TsF), that inhibits T cell proliferation in vitro. The similarities between the N-terminal amino acid sequences of G-TsF and some growth factors are reviewed. When tested in a helper T cell line, purified G-TsF inhibited the antigen-induced cell growth in the presence of **antigen-presenting cells**. G-TsF also directly interfered with the growth-promoting effect of interleukin 2. G-TsF may contribute to impaired immunosurveillance and to the cellular immunodeficiency detected in patients with **glioblastoma**.

ST **glioblastoma** derived T suppressor factor

IT Immunosuppression  
(in **glioblastoma**, **glioblastoma**-derived T-cell suppressor factor role in, of humans)

IT Protein sequences  
(of **glioblastoma**-derived T-cell suppressor factor N terminus, of humans)

IT Lymphocyte  
(T-, suppressor, factor-inducing, human **glioblastoma**-derived, amino terminal sequence and biol. mechanism of human)

IT **Neuroglia**  
(neoplasm, **glioblastoma**, T-suppressor factor from, amino terminal sequence and biol. mechanism of human)

IT Animal growth regulators

PL: BIOL (Biological study)  
(beta.1-transforming growth factors, N-terminal sequence and biol. mechanism of human)

L75 ANSWER 13 OF 13 HCAPLUS COPYRIGHT 2003 ACS

AN 1988:421372 HCAPLUS

DN 109:21372

TI The **glioblastoma**-derived T cell suppressor factor/transforming growth factor- $\beta$ 2 inhibits T cell growth without affecting the interaction of interleukin 2 with its receptor

AU Siepl, Christine; Bodmer, Stefan; Frei, Earl; MacDonald, H. Pabson; De Martin, Rainer; Hofer, Erhard; Fontana, Adriano

CS Dep. Neurosurg., Univ. Hosp., Zurich, CH-8044, Switz.

SO European Journal of Immunology (1983), 13:4, 593-600

CIDEN: EJIMAF; ISSN: 0014-2980

DT Journal

LA English

CC 15-5 (Immunochimistry)

AB Human **glioblastoma** cells secrete a peptide termed **glioblastoma**-derived T cell suppressor factor (G-TsF) which inhibits T cell activation. Recently, purification and cloning of G-TsF revealed that G-TsF is identical to transforming growth factor- $\beta$ 2. As shown here, G-TsF suppresses the growth of an ovalbumin-specific mouse T helper cell clone (OVA-7T, independently of the stimulus used being either (a) antigen in the presence of **antigen-presenting cells**, or (b) interleukin 2 (IL 2) or (c) phorbol ester and Ca ionophore. In the presence of antibodies against IL 2 receptors, G-TsF was able to suppress the residual proliferation still obsd. when OVA-7T were stimulated with phorbol ester/ionophore. G-TsF failed to inhibit the release of IL 3 from OVA-7T activated with IL 2. The data provide evidence that G-TsF does not directly interfere with interactions of IL 2 with its receptor but rather inhibits T cell activation by interfering with an as yet unidentified pathway used by both IL 2 and phorbol ester/ionophore. When analyzing different monokines and lymphokines for their effect on G-TsF-induced suppression of T cell growth, the only factor found to partially neutralize the effect of G-TsF was tumor necrosis factor- $\alpha$ .

ST **glioblastoma** T cell suppressor factor; interleukin 2 receptor T lymphocyte

IT Receptors  
EL: BIOL (Biological study)  
(interleukin 2 binding to, **glioblastoma**-derived T-cell suppressor factor inhibition of T-cell growth in relation to)

IT Lymphocyte  
(T-, growth of, **glioblastoma**-derived T-cell suppressor factor inhibition of, interleukin 2 binding to receptor in relation to)

IT Lymphokines and cytokines  
EL: PROC (Process)  
(interleukin 2, binding of, to receptor, in **glioblastoma**-derived T-cell suppressor factor inhibition of T-cell growth)

IT **Neuroglia**  
(neoplasm, **glioblastoma**, T-cell suppressor factor from, T-lymphocyte growth inhibition by, interleukin 2 binding to receptor in relation to)

IT Animal growth regulators  
EL: BIOL (Biological study)  
( $\beta$ -transforming growth factors, T-lymphocyte growth inhibition by, interleukin 2 binding to receptor in relation to)

IT Animal growth regulators  
EL: SYN (Synthetic preparation); PREP (Preparation)  
( $\beta$ 2-transforming)

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1102 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 1999167716 BIOSIS

IN PREVIEW 19990107720

TI **Monocyte** mediated T-cell unresponsiveness.

AU Lux, A. R. (1); Morford, L. A.; Zou, J. P.; Shearer, G. M.; Brooks, W. H.; Roszman, T. L.

CS 1 Dep. Microbiol. Immunol., Univ. Kentucky, Lexington, KY 40536 USA

SO FASEB Journal, (March 12, 1999) Vol. 13, No. 4 PART 1, pp. A610.

Meeting Info.: Annual Meeting of the Professional Research Scientists for Experimental Biology 99 Washington, D.C., USA April 17-21, 1999  
ISSN: 0891-6638.

ET Conference

LA English

CC Immunology and Immunochimistry - Immunopathology, Tissue Immunology  
\*4431

Cytology and Cytochemistry - Human \*01503

Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and

Reticuloendothelial System \*1500e

Nervous System - Pathology \*10500

Neoplasms and Neoplastic Agents - General \*24002

General Biology - Symposia, Transactions and Proceedings of Conferences, Congresses, Review Annuals \*00520

EO Hematidae \*66115

IS Major Concepts

Immune System (Chemical Coordination and Homeostasis); Nervous System  
(Neural Coordination); Tumor Biology

IC Parts, Structures, & Systems of Organisms

monocytes: blood and lymphatic, immune system; T cells: blood and  
lymphatic, immune system

IT Diseases

**glioblastoma**: neoplastic disease, nervous system disease;  
immunologic defects: immune system disease

IT Alternate Indexing

**Glioblastoma** (MeSH)

IT Miscellaneous Descriptors

Meeting Abstract

CEGN Super Taxa

Hematinidae: Primates, Mammalia, Vertebrata, Chordata, Animalia

CEGN organism Name

human (Hematinidae : patient

CEGN organism Superterms

Animal ; Chordates; Humans; Mammals; Primates; Vertebrates

1102 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 1999167716 BIOSIS

IN PREVIEW 19990749636403

TI **Glioma**-derived suppressor factor (GSF) induces decreased IL-12  
and increased IL-10 production.

AU Zou, J.-P. (1); Morford, L. A.; Brooks, W. H.; Choungnet, C. (1); Roszman, T. L.; Shearer, G. M. (1)

CS 1 Exp. Immunol. Br., National Cancer Inst., Bethesda, MD USA

SO Journal of Acquired Immune Deficiency Syndromes and Human Retrovirology,  
(1997) Vol. 14, No. 4, pp. A30.

Meeting Info.: National AIDS Malignancy Conference Bethesda, Maryland, USA

April 28-30, 1997

ISSN: 1077-9450.

DT Conference: Abstract

LA English

CC General Biology - Symposia, Transactions and Proceedings of Conferences, Congresses, Review Annals 00500

Endocrine System - General \*1 002

Nervous System - Pathology \*1506

Neoplasms and Neoplastic Agents - Immunology \*24003

Neoplasms and Neoplastic Agents - Biochemistry \*24005

Immunology and Immunochimistry - Immunopathology, Tissue Immunology \*34504

Medical and Clinical Microbiology - Virology \*1600

BC Hominidae \*36113

IT Major Concepts

Clinical Immunology (Human Medicine, Medical Sciences); Endocrine System (Chemical Coordination and Homeostasis); Infection; Neurology (Human Medicine, Medical Sciences); Oncology (Human Medicine, Medical Sciences)

IT Miscellaneous Descriptors

ACQUIRED IMMUNODEFICIENCY SYNDROME-ASSOCIATED MALIGNANCIES;

AIDS-ASSOCIATED MALIGNANCIES; GLIOBLASTOMA CELL LINES;

GLIOMA-DERIVED SUPPRESSOR FACTOR; GSF; 11-10; 11-12; IMMUNE SYSTEM;

INTERLEUKIN-10; INTERLEUKIN-12; NEOPLASTIC DISEASE; PATIENT;

SELECTION; TUMOR BIOLOGY

OFGN Super Taxa

Hominidae; Primates, Mammalia, Vertebrata, Chordata, Animalia

OFGN Organism Name

Human (Hominidae)

OFGN Organism Superterms

animals; chordates; humans; mammals; primates; vertebrates

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FILE LAST UPDATED: 29 JAN 2003 &lt;2003-0129,UP&gt;

MOST RECENT DERWENT UPDATE: 200301 &lt;200301,DW&gt;

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L114 4 (L103 OR L112)

=> d all abeq tech also tot

L114 ANSWER 1 OF 4 WITH ID 1003 THOMSON DERVENT

AI 1003-58043 [01] WPIX

DIW H.001-455027 INC C1001-162800

TI Compositions useful for treating diseases e.g. allergy, cancer and autoimmune disease, comprises CD1 fusion proteins, preferably multivalent fusion proteins that are present in multimeric fusion form.

DC B14 C06 D16 S03

IN BEHAR, S M; BRENNER, M B; GUMPERT, J E

PA BETH ISRAEL DEACONE HOSPITAL INC; (BEHA-1) BEHAR S M; (BREN-1) BRENNER M B; (GUMF-1) GUMPERT J E

CYC 11

FI WO 100106494 A2 10011011 (200201) EN 88p G01N033-569

AW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU NC NL PT SE TR  
US: AU CA JP

AT 200101358 A 10011117 (200207) G01N033-569

US 200101358 A1 10011117 (200207) A01N039-395

ADT WO 200106494 A2 WO 1001-US1817 20010605; AU 200101358 A AU 1002-13588  
10010605; US 2001-21341 A1 Provisional US 2000-209416P 20000605, US  
1001-874470 10010605

FDT AT 200101358 A Based on WO 1001-4949

PRAI US 2001-209416P 20010605; US 10 1-874470 20010605

IC 1001-874470-395; G01N033-569

1001-874470-367

AB WO 200106494 A UPAB: 10020924

NOVELTY - A composition (I) comprising:

- (a) a vaccine having an immunogen that binds to a CD1 molecule, and enhances or induces protective immunity to a condition;
- (b) a CD1 fusion protein (II) that selectively binds to the immunogen to form a CD1-presented immunogen complex (IC) that activates a cognate CD1-restricted T cell (III); and
- (c) a carrier, where (II) enhances or induces protective immunity to the condition, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) activation (M1) of antigen specific (III) for immunotherapeutic treatment of disease comprising selecting antigen specific (III) and sterily sorting the selective cells by flow cytometry;
- (2) depleting (M2) antigen specific (III) for immunotherapeutic treatment of disease comprising selecting antigen specific (III) and sterily sorting out (removing) the selective cells;
- (3) identifying (M3) an antigen recognized by a (III), comprising contacting (II) with a putative CD1 antigen under conditions to form IC, contacting the IC with a (III) under conditions to allow IC-mediated activation of the T-cell and detecting activation of the T-cell; and
- (4) identifying (M4) (III) comprising contacting IC with a putative (III) under conditions to allow complex mediated activation of the T cell and detecting the activation of the T cell.

ACTIVITY - Cytostatic; Immunosuppressive; Anti-allergic; Antibacterial; Virucide; Fungicide; Anti-inflammatory; Antiasthmatic. Test details given but no supporting data.

MECHANISM OF ACTION - Vaccine (claimed).

USE - (I) is useful for enhancing vaccine-induced acquired protective immunity to a condition such as microbial infectious disease, or to a

tumor, allergen, or an autoantigen, or for treating a condition such as infectious disease, cancer, autoimmune disorder or an allergy, where (II) is administered subsequent to administering the vaccine to enhance recall protective immunity. M1 is useful for activation of antigen specific (III) for immunotherapeutic treatment of disease, M2 is useful for depleting antigen specific (III) for immunotherapeutic treatment of disease, M3 is useful for identifying an antigen recognized by a (III) and M4 is useful for identifying (III), where M4 is also useful for detecting (III) activity in a sample where the activity is from the number of (III) as percentage of the total T cell population or a change in the number and (III) functional activity or a change in the functional activity, where detecting the activity comprises detecting the number of T cells or a change in the number by detecting number of IC containing a detectable label bound to the T cell and the functional activity is from binding of (III) to the complex, cytokine release by (III), calcium flux in (III), protein tyrosine phosphorylation in (III), phosphatidyl inositol turnover in (III) (claimed). Examples of diseases include cancers (e.g. **glioblastomas**, Wilms' tumor, leukemia) and allergies (e.g. eczema, hay fever, allergic asthma).

Dwg.0/0

FS CPI EPI

FA AB; DCN

MC CPI: B04-B04B1; B04-B04C; B04-B04D; B04-B04H; B04-B04L; B04-F04; B04-H02;  
B04-H05C; B04-H06; B04-N03; B05-A01B; B05-B01P; B11-C08E; B12-F04A;  
B14-A01; B14-A02; B14-A04; **B14-G02A; B14-G02D;**  
B14-H01; B14-F01A; B14-H17C; B14-S11; C04-B04B1; C04-B04C; C04-B04D;  
C04-B04H; C04-B04L; C04-F04; C04-H02; C04-H05C; C04-H06; C04-N03;  
C11-C08E; C12-F04A; C14-A04; **C14-G02A; C14-G02D;**  
C14-H01; C14-H01A; C14-H17C; C14-S11; D05-H01; D05-H02; D05-H17C  
EPI: C04-B14H1

TECH UPTX: 1.0020014

TECHNOLOGY FOCUS - BIOTECHNOLOGY - Preferred Composition: In (I), (III) is preferably multivalent, and the condition is, preferably an infectious disease, cancer, autoimmune disease or allergy, and so the immunogen derived is from an infectious agent preferably bacterial, viral, fungal, and a protist infectious agent, or immunogen derived from cancer cell, from a selective marker for the autoimmune disease or from an allergen. Preferred Method: In M1, the selection process comprises staining IC. The method further comprises co-cultivating a stimulatory agent, expanding the selected T-cells in culture, and then administering the expanded T-cells to a subject in need of such treatment. M2 further comprises administering the selected T-cells which are not antigen specific (III) to a subject, or attaching a toxin to the antigen specific (III) and administering the toxin-labeled cells to the subject. In M3, the contacting step is performed in vitro or in vivo, and (II) is from CD1a, CD1b, CD1c, and CD1d fusion protein, where (II) is in soluble form and is multimeric and is optionally bound to protein A which contains a detectable label for facilitating detection of the protein in either isolated or bound form e.g. immobilized on a solid support. M3 further comprises removing the antigen that is not present in IC. CD1 antigen is naturally-occurring lipid-containing molecule or synthetic molecule, and is preferably contained in or isolated from a total lipid extract of a sample from mammalian cell, plant cell, bacteria, virus, fungus, protist and a synthetic library, and more preferably derived from a mammalian cell which is contained in or derived from blood, cerebrospinal fluid, synovial fluid, tissue, urine, amniotic fluid, peritoneal fluid, and a gastric fluid sample, where the CD1 antigen is a lipid-containing molecule selected from polar lipid (e.g., a ganglioside, phospholipid), neutral lipid, glycolipid, and a lipidated protein or lipidated peptide. (III) is preferably from mouse (III) and a human (III). The detecting step comprises detecting one or more of an indicator from binding of (III) to IC, a change in cytokine release by (III), a change in calcium flux in (III), a change in protein tyrosine phosphorylation flux in (III),

phosphatidyl inositol turnover flux in M3), where detecting binding of (III) to IC preferably comprises detecting binding of (III) to labeled (II), and the cytokine released by (III) is preferably from interferon (e.g. IFN-gamma), interleukin (e.g. IL-2, IL-4, IL-10, IL-13), tumor necrosis factor (e.g. TNF-alpha) and a chemokine. M3 further comprises contacting T-cells with costimulatory agent prior to detecting where the costimulatory agent is from an adhesion molecule (e.g. CD2), an NK complex molecule (e.g. CD161, CD94), an antibody to the T-cell receptor (e.g. an anti-CD3 antibody), a non-specific stimulator (e.g. phytohemagglutinin, PHA), concanavalin A (Con A), phorbol myristate acetate (PMA), an

**antigen-presenting cell** which does not express CD1 and a co-stimulatory molecule (e.g. CD27). In M4, IC preferably comprises a detectable label, and a T cell is contained in a biological sample selected from one of the sample mentioned above. The activation of the T cell is detected preferably by detecting binding of the T cell to the labeled (II), where the detection step comprises detecting the labeled T cells bound to the labeled (II) by flow cytometry.

ABEX

SPECIFIC CELLS - (III) is a mouse MEF-cell, or a cell from DN1.1E6, DN1.29, MUR-15, and DN1.06 cell-line.

ADMINISTRATION - (I) is administered through oral, rectal, topical, nasal, intradermal or parenteral route. Dose is 0.1-10.0 (preferably 50-100) mg/kg/day.

EXAMPLE - New cDNA constructs were generated that encode human beta-2 microglobulin attached by a glycine-serine spacer peptide to the N-terminus of the extracellular domains of CD1. The C-terminus of the CD1 molecule is fused by another glycine-serine spacer peptide to the hinge and CH-CH3 domains of murine IgG2a. The cDNA constructs were cloned into the pBUD-neo expression vector, for stable expression in mammalian cells (Hu, A. et al., Science, 249:687-691 (1990)). The fusion proteins were expressed in Chinese hamster ovary (CHO) cells, and were purified. Purified bovine brain spongomyelin (Sph) was utilized as synthetic antigen and was tested for recognition of the fusion protein. A composition was prepared by including the synthetic antigen and a fusion protein prepared with optionally a carrier which utilized for treating diseases such as allergies and autoimmune diseases, etc.

L114 ANSWER 2 OF 4 WPIK (C) LIPS THOMSON PERWENT

AN 2001-097435 [13] WPIK

DNC 02001-010319

TI Inducing activation composition for dendritic cells in human, contains polynucleotide, viral vector, or polynucleotide derivative and polyoxyethylene-polyoxypropylene block copolymer.

DC A1 AGG B04 01e

IN ALAPHOV, V; GUEPIN, N; KARANOV, A V; LEMIEUX, P; VINOGRADOV, S

PA 0098-10 SUPRATES PHARMA INC

CYC 00

PI WO 2001098366 AD 200108 200113 EN 12-p C11N00-00

BW: AT BE CH CY IE UK FA ES FI FR GE GH GI GR IF IT MF LS LU MC MW NZ NL OA PT SD SE SL TF TH VA VW

W: AE AG AL AM AT AU AZ BA BB BF BY CA CH CN CO CR CU CZ DE DK DM DO EE EF FI GE GH GI GR GN HE HU ID IL IN IS SI KE KG KH KZ LC LE LI LS LT LU LV MA MD ME MF MN MW MX NC NO NI PL PT PQ RU SE SG SI SK SL TF TH VA VW UG US UZ VN YU ZA ZW

AN 2001097435 A 20010112 010012 C11N00-00

ADT WO 2001098366 AD WO 2001-001801 20010430; AU 2001074815 A AU 2001-74815 2001430

FDT AN 2001097435 A Based on WO 2001098366

PRAI US 2001-200406P 20010101; US 1010-200487P 20000418

IC DM C11N00-00

AB WO 2001098366 A UPAB: 20020026

NOVELTY - An inducing activation composition for dendritic cells (DCs) in

animals comprises a polynucleotide, viral vector, or polynucleotide derivative and polyoxyethylene-polyoxypropylene block copolymer(s).

ACTIVITY - Cytostatic; Antiinflammatory; Antirheumatic; Antiarthritis; Antiarteriosclerotic; Ophthalmological; Antialcoholism; Osteopathic; Dermatological; Immunosuppressive; Antiulcer; Cardiant; Cerebroprotective; Vasotropic; Virucide; Hepatotropic; Anti-HIV; Protopoicide; Tuberculostatic.

10 Days after ischemia was induced in 1 rabbit hindlimb, 100 g of ph-VEEF 105 was formulated with 0.1 wt% of block copolymers was injected intramuscularly (I.M.) into the ischemic hindlimb muscles. After 30 days, an angiography was performed to recognize collateral vessels and histology analysis was carried out to identify capillaries. Ischemic skeletal muscle represented a promising target for gene therapy with naked plasmid DNA formulated with block copolymers. I.M. transfection of genes encoding angiogenic cytokines, particularly those that were naturally secreted by intact cells, constituted an alternative treatment strategy for patients with extensive peripheral vascular disease.

MECHANISM OF ACTION - None given.

USE - The composition is for inducing activation of dendritic cells in animals, preferably humans; increasing the level of production and infiltration for DCs in response to gene expression; and increasing the immune response and generates large amounts of DCs in vivo or in vitro (all claimed). It is also used in treating genetic diseases including rheumatoid arthritis, psoriasis, Grima's disease, ulcerative colitis, alpha-thalassemia, beta-thalassemia, carbonic anhydrase II deficiency syndrome, triosephosphate isomerase deficiency syndrome, tetrahydrobiopterin deficient hyperphenylalaninemia, classical phenylketonuria, muscular dystrophy such as Duchenne Muscular Dystrophy, hypervitaminosis, adenomatous intestinal polyps, adenosine deaminase deficiency, malignant melanoma, glucose-6-phosphate dehydrogenase deficiency syndrome, arteriosclerosis, and hypercholesterolemia, Gaucher's disease, cystic fibrosis, osteopetrosis, increased spontaneous tumors, T and B cell immunodeficiency, high cholesterol, arthritis, including chronic rheumatoid arthritis, glaucoma, or alcoholism. It can be also used to treat neoplastic diseases including cancer (e.g. breast, pancreatic, gastric, prostate, colorectal, lung, ovarian), lymphomas (such as Hodgkin and non-Hodgkin lymphoma), melanoma, and malignant melanoma, advanced cancer keratoma B, renal cell carcinoma, **glioblastoma**, astrocytoma, gliomas, acute myelogenous leukemia (AML), or cell-mediated lympholysis (CML). It can be used to treat cardiovascular diseases including stroke, cardiomyopathy associated with Duchenne Muscular Dystrophy, myocardial ischemia, or restenosis; infectious diseases such as hepatitis, HIV infections and acquired immunodeficiency syndrome (AIDS), herpes, cytomegalovirus (CMV), or associated disease such as CMV retinitis; and transplantation related disorders such as renal transplant rejection. It is also used in vaccine therapies and immunization, including melanoma vaccines, HIV vaccines, malaria, or tuberculosis.

ADVANTAGE - The polynucleotide molecules in the inventive composition decrease the integration of polynucleotide into the chromosome(s) of the host organism; and decrease the development of anti-polynucleotide (or anti-DNA) antibodies which have been associated with diseases such as systemic lupus erythematosus.

Log: 0

FS CFI

FA AB; ICH

MC CFI: A05-H-3A3; A05-H04A; A11-W111; B04-C03; B04-E02; B04-E03; B04-E08; B04-F11; B12-M03; B12-M07; B14-A01B1; B14-A01; B14-A03B; B14-C09B; B14-D02A2; B14-E10C; B14-F11E; B14-F01G; B14-F03; B14-F06; B14-F07; **B14-G01; B14-G02C**; B14-H01; B14-J01E; B14-K01; B14-L06; B14-M01A; B14-N01; B14-N03; B14-N11; B14-N17C; B14-S03A; B14-S11; D05-H07; D05-H11A; D05-H12B; D05-H11E

TECH UPTX: 20020116

TECHNOLOGY FOCUS - POLYMERS - Preferred Component: The composition may



also include a polycation which is a polyamine polymer, an oligoamine, or an oligoamine conjugate. It also contains a mixture of block copolymers having first block copolymer component with oxyethylene content of at most 50, and a second block copolymer component with an oxyethylene content of at least 50. The weight ratio of second block copolymer to the first block copolymer is at least 5:1. The mixture comprises the block copolymer Pluronic F127 (PTM) or Pluronic L61 (PTM). The ratio of Pluronic F127 (PTM):Pluronic L61 (PTM) is 1:1. The Pluronic F127 PTM is 23 w/v and Pluronic L61 (PTM) is 0.025 w/v. Block copolymer(s) are of formula (II)-(V). The polycationic polymer is a cationic homopolymer, copolymer, or block copolymer comprising fragment(s) from aminoalkylene monomer(s), cationic amino acids,  $\alpha$ -OPOCH<sub>2</sub>-F9NF11E11E11 OF8, or vinylpyridine or its derivative. The aminoalkylene monomer comprises a tertiary amine monomer of formula F6(VI), or a second amine monomer of formula F6(HER7)F8 (VII). The composition also includes a polynucleotide and a polymer of segments. The polymers comprise polycationic segment which is cationic homopolymer, copolymer, or block copolymer, or their quaternary salt; or chain polymer segment(s) of 5-400 monomer units, or a homopolymer or a polymer of monomer(s) from acrylamide, glycerol, vinyl alcohol, vinyl pyrrolidine, vinylpyridine-N-oxide, oxazoline, morpholine acrylamide, or their derivatives. The polyether segment is a homopolymer of alkyleneoxy monomer (VIII), or a copolymer or block copolymer of the first alkyleneoxy monomer (preferably ethyleneoxy) and a second alkyleneoxy monomer of formula OCH<sub>2</sub>CH<sub>2</sub>n (preferably propyleneoxy of formula  $\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}_2$ ). The polycationic polymer, at physiological pH comprises at least 6 cationic groups separated by 5-12 Angstrom. Each polyether segment has 5-30 monomeric units and the polycationic segment is a homopolymer, copolymer, or block copolymer of 2-100 of monomeric units of formula NHRO. The polycationic polymer is covalently linked with anionic polymer segment(s).

x, y, z, i, j = 1-400;

F1, F2 = H or Me;

F3, F4, F5, R = H, 3-8C alkyl, another monomer (I), or another monomer (II);

F6, F7 = alkenediyl of formula  $\text{-(CH}_2\text{CH}_2\text{)}_n\text{-}$ ;

n = 1-8;

F8 = 1-12C straight chain aliphatic;

F9 =  $\text{-(CH}_2\text{)}_n\text{CH(R1)-}$ ;

n = 1-5;

F10-F12 = H, or 1-4C alkyl;

F13 = H, 3-8C cycloalkyl, or 1-2C alkyl;

n' = 2-3;

m = 1-4;

F1 = straight chain aliphatic of 2-6C which may be optionally substituted.

Preferred Form: The composition may be in a form of molecular solution or colloidal dispersion which is a suspension, emulsion, microemulsion, micelle, polymer complex, or other type of molecular aggregate.

Preferred Dimension: The colloidal dispersion comprises molecular species that are less than 300, preferably less than 50 nm.

TECHNOLOGY FOCUS - BIOTECHNOLOGY - Preferred Component: The polynucleotide is ribonucleic acid (RNA), deoxyribonucleic acid (DNA), plasmid DNA, virus, or viral vector. It encodes a secreted or non-secreted protein, vaccine, or antigen. The composition may also contain a gene expressing a secreted or non-secreted protein, vaccine or antigen and gene(s) expressing an adjuvant **antigen presenting cells** and induce immune response for enhanced presentation.

#### ABEX

ADMINISTRATION - Administration is orally, typically, rectally, vaginally, parentally, intramuscularly, intradermally, subcutaneously, intraperitoneally, or intravenously (preferably by injection) for smooth, skeletal, or cardiac muscles. No dosage given.

EXAMPLE - A composition contained copolymer from Pluronic A, and

polycation from poly(N-ethyl-4-vinylpyridinium bromide) (pEVP-Br). A 10 micro g/ml solution of rho beta-Gal (predominantly supercoiled) was prepared in a solution of PBS containing 10 mg/ml of Pluronic A and 45 micro g/ml of pEVP-Br. These amounts were calculated to provide a ratio of polycation basic groups to plasmid phosphate groups of 10. The ratio of Pluronic A to DNA was 100. This stock was filter sterilized and a portion was diluted ten fold with serum-free Dulbecco's Modified Eagle's Medium (DMEM), so that the concentration of rho beta-Gal was 1 micro g/ml. This solution was the Pluronic A transfecting medium.

L114 ANSWER A OF 4 WPIX (7) 1003 THOMSON (ERWENT

AN 2 11-31-1991 [27] WPIX

DNN N 01-104775 DNN 01001-114003

TI **Antigen-binding fragments specific for stress protein-peptide complexes (SPPCs) associated with tumors and cancer associated SPPCs, useful for treating a range of cancers.**

DC B04 11-31

IN DAN, M; ENTWISTLE, J; EAST, L; KARLAN, H; LEWIS, F; MACDONALD, G; MAITI, P

FA (PDB-NO) DRUGPHARM BIOTECH INC

CYC 90

FI WO 1991040292 A1 20010607 (2001 7)\* EN 170p C07K014-47

FW: AT BE CH CY IE DK EA EF FI FF GE GH GM GN HE IE IT KE LS LU MC MW NL  
QA QT SD SE SI SJ SK SL SW

W: AE AL AM AT AU BA BE BG BF BY CA CH CN CU DE DK DM HE ES  
FI GE GD GE GH HM HF HU ID IL IN IS JP KE KG KP KH KZ LC LK LR LS  
LT LU LV MA ME MG MF MU MW MX NC NZ PL PT RO RU SD SE SG SI SK SL  
TJ TM TR TT UA US UG UJ VJ VN YU ZA ZW

AD 2000013703 A 20010611 (2001 34) C07K014-47

ADT WI 2 01040292 A1 WI 1999-CA1141 1999-1129; AU 2000013703 A WO 1999-CA1141  
1999-1129; AT 2000-104775 1999-1129

FDT AU 2000-104775 A Based on WO 1999-1140242

PRAI WI 1999-CA1141 1999-1129

IC ICM C07K014-47

ICS AC19039-385; C07H010-30; C12N015-10; G01N033-574

AB WO 1991040292 A UPAP: 19910704

NOVELTY - Antigen-binding fragments specific for stress protein-peptide complexes (SPPCs) associated with tumors and cancer associated SPPCs, are new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (i) a composition (I) comprising an isolated stress protein-peptide complex (SPPC) capable of binding specifically to an anti-SPPC;
- (ii) a composition (II) comprising at least 1 isolated SPPC which is immunologically cross-reactive with a cancer cell surface associated SPPC;
- (iii) a composition (III) comprising the peptide portion of any isolated SPPC contained in (II);
- (iv) a polynucleotide (IV) encoding the peptide of (III);
- (v) a composition (V) comprising a purified SPPC corresponding to one of the SPPCs specifically recognized by H11 within a population of SPPCs derived from A-375 human melanoma cell line;
- (vi) a process (VI) for creating an immunogen using the peptide portion of an SPPC by linking the peptide portion to a peptide coupling molecule;
- (vii) an **antigen presenting cell** (VII) sensitized with the above composition;
- (viii) a composition (VIII) comprising an antigen binding fragment of an antibody which binds specifically to at least 1 (different) cancer-associated SPPC(s);
- (ix) a cancer cell imaging composition (IX) comprising (VIII) bound to a detectable label;
- (x) a method (X) of treating an individual with primary or metastasized cancer, comprising:
  - (a) sensitizing **antigen-presenting cells**

in vitro with (IX); and

(b) administering the sensitized **antigen presenting cells**;

(11) a composition (XI) comprising sensitized **antigen presenting cells** produced by (X);

(12) a method (XII) of selecting monoclonal antibodies (MAbs) directed against cancer associated SPPCs;

(13) a method (XIII) of generating cancer associated SPPCs;

(14) a population (XIV) of genetic packages with a genetically determined outer surface protein including those that collectively display a number of different potential immunoglobulin binding fragments in association with the outer surface protein, each package included a nucleic acid construct coding for a fusion protein or a portion of the outer surface protein and a variant of at least 1 parental anti-SPPC immunoglobulin binding fragment (a part of the construct includes a part of the CDR3 region of the VH chain which is randomized to create variation among the potential binding fragments, is biased in favor of encoding the amino acid constitution of a the parenteral immunoglobulin binding fragment);

(15) a composition (XV) comprising an antigen-binding fragment of an antibody specific for a cancer associated SPPC which elicits a cancer-associated immune response in a subject;

(16) a method (XVI) of treating a cancer patient comprising administering (XV);

(17) a method (XVII) of identifying antigen-binding fragments of an antibody specific for a tumor-associated SPPC;

(18) a method (XVIII) of isolating an antigenic tumor associated SPPC;

(19) a method (IXX) of isolating a peptide forming part of an antigenic tumor-associated peptide complex;

(20) a method (XX) of isolating an antigenically active tumor-associated protein-peptide complex;

(21) a composition (XXI) comprising an antigenic native SPPC which is immunologically cross-reactive with an SPPC on the surface of cancer cells;

(22) cancer-associated antigen binding fragments (XXII) which react specifically with a C-antigen;

(23) an immunoaffinity matrix (XXIII) to which an anti-SPPC is bound;

(24) a cancer associated anti-SPPC;

(25) a method of making an anti-SPPC by modifying a multi-carcinomic anti-SPPC or an anti-SPPC that binds to a number of SPPCs;

(26) a method of making an anti-SPPC by modifying an anti-SPPC that binds to the same target as H11 as determined by competitive inhibition assay;

(27) a monoclonal, polyclonal or phage library derived anti-SPPC that binds specifically to an isolated SPPC;

(28) a polynucleotide encoding an anti-SPPC; and

(29) a variant of H11 or E6 which binds specifically to an SPPC.

ACTIVITY - Cytostatic.

No suitable data given.

MECHANISM OF ACTION - Immunostimulation.

USE - The cancer-specific SPPC complexes are useful for initiating cancer-specific immunogenic responses against a variety of cancers.

The cancer cell-types are astrocytoma, fibrosarcoma, myxosarcoma, liposarcoma, oligodendroglioma, epidermoma, medulloblastoma, primitive neural ectodermal tumor (PNET), chondrosarcoma, osteogenic sarcoma, pancreatic ductal adenocarcinoma, small and large cell lung adenocarcinomas, chorioma, angiosarcoma, endothelioma, squamous cell carcinoma, bronchoalveolar carcinoma, epithelial adenocarcinoma, and liver metastases thereof, lymphangiosarcoma, lymphangioblastoma, hepatoma, cholangiocarcinoma, synovium, mesothelioma, Ewing's tumor, rhabdomyosarcoma, colon carcinoma, basal cell carcinoma, sweat gland

carcinoma, papillary carcinoma, sebaceous gland carcinoma, papillary adenocarcinoma, cystadenocarcinoma, medullary carcinoma, bronchogenic carcinoma, renal cell carcinoma, bile duct carcinoma, choriocarcinoma, seminoma, embryonal carcinoma, Wilms' tumor, testicular tumor, neuroblastoma, craniopharyngioma, epidermoma, pinealoma, hemangioendothelioma, acoustic neuroma, oligodendroglioma, kidney adenocarcinoma, meningioma, neuroblastoma, retinoblastoma, leukemia, multiple myeloma, Waldenstrom's macroglobulinemia, and heavy chain disease, breast tumors such as ductal and lobular adenocarcinoma, squamous and adenocarcinomas of the uterine cervix, uterine and ovarian epithelial carcinomas, prostatic adenocarcinomas, transitional squamous cell carcinoma of the bladder, B and T cell lymphomas (nodular and diffuse) plasmacytoma, acute and chronic leukemias, malignant melanoma, glioblastoma, colon adenocarcinoma, small cell lung carcinoma, soft tissue sarcomas, ovary adenocarcinoma, ovarian adenocarcinoma, placental cell carcinoma, prostate adenocarcinoma, larynx carcinoma and leiomyosarcomas claimed.

Fig. 6/11

FS FI FFI

FA AB; ICH

MC FI: F04-B040; F04-B041; B04-C01; B04-E01; B04-F01; F04-G05; B04-G0500E; B04-H0500E; B11-C00A; B11-C00E; B11-F04A1; F12-F04E; B11-H01; F14-S11E; D05-A01A; D05-A01B; D05-C11; D05-E07; D05-H03; D05-H09; D05-H10; D05-H11; D05-H12; F05-H17; F05-H18  
FFI: F05-E13H4

TECH UFTX: 10010784

TECHNOLOGY FOCUS - BIOTECHNOLOGY - Preferred Compositions: In (I), the SPPC binds specifically to the surface of a stressed cell, especially a cancer cell. The SPPC is immunologically cross-reactive with a cancer cell surface associated SPPC. The stress protein of the SPPC belongs to either the HSP70 or HSP90 family. The stress protein is HSP72, HSP86 or HSP96. In (II), the anti-SPPC binds to at least 2 different cancers and binds specifically to a number of different SPPCs including SPPCs belonging to more than 1 family. The SPPC is immunologically cross-reactive with cancer cell surface associated SPPCs on at least 2 different cancers. The stress protein of the SPPC belongs to either the HSP70 or HSP90 family. The stress protein is HSP72 or HSP86. (ii) further comprises at least 1 other different SPPC which is immunogenically cross-reactive with a cancer associated SPPC. The additional SPPC is also capable of binding to the anti-SPPC. The stress proteins of the additional SPPCs belong to both of the HSP70 or HSP90 families. The SPPC is immunologically cross-reactive with more than 1 type of cancer cell population which is/are capable of exhibiting cell surface associated SPPCs. (The anti-SPPC is H11 or E6.

In (V), the SPPC belongs to the HSP70 or HSP90 family.

In (VIII), the antigen binding fragment of an antibody binds specifically to a number of different cancer cell types. The SPPCs belong to different families of stress proteins, especially those defined above. The antigen binding fragment and the target cancer cell are of human origin. The antigen binding fragment does not have an Fc portion for activating complement. The composition is free of synergistic cancer cell inhibiting or killing compounds.

(IX) is used for imaging a cancer cell, especially a cell in a mammal. The anti-SPPC is linked to a group which assists in detecting specific binding of the anti-SPPC to a ligand. (IX) may also be used for treating or preventing cancers in mammals. (IX) is especially for use with a number of cancer cell types that are capable of exhibiting SPPCs on the surface of the cell, especially carcinoma cells.

The antigen-binding fragment competitively binds to the same target as H11 or E6 as determined by competitive inhibition assay.

Preferred Processes: In (VI) the peptide portion is covalently associated with the peptide coupling molecule or non-covalently associated to a peptide presenting molecule. The peptide-coupling molecule is a heat-shock

protein.

L114 ANSWER 4 OF 4 WPIX (3) 2003 THOMSON PERWENT

AN 1000-038136 [61] WPIX

DNC C100-125955

TI Inhibiting immune responses to selected antigens for treating immune mediated diseases, by incubating **antigen presenting cells** with composition comprising factors secreted by **glioblastoma cell line**.

DC B4 016

IN CHOUCHET, C; COLIGAN, J E; SHEAFER, G M; ZUG, J; ZOU, J

PA USSH. OF DEPT HEALTH & HUMAN SERVICES; (USSH) US NAT INST OF HEALTH

CYC 4

PI WO 2000030256 A2 20000025 (200001) \* EN 13p A61K039-00

BW: AT BE CH CY DE DK EA EG FI FP GB GR HI IE IT FE LS LU MC MW NL  
OA PT SI SE SL SO TC UG UW

W: AE AG AL AM AT AU AZ BA BB BG BF BY CA CH CN CO CU CE EE EK EM EZ  
ES ET FI GE GG GH GI GL GN GR HS HU IL IN IS JP KE KG KI KF KZ LC LE  
LF LS LT LU LV MA MD ME MF MI MW MX NO NZ PL PT FO PP SE SG SI  
SF SL TO TI TR TT UA UB UF UE VH YU ZA ZW

AT 2000041295 A 20000000 (200001) \* A61K039-00

EP 1150101 A2 20000001 (200001) \* EN A61K039-00

A: AL AT BE CH CY DE DK EA EG FI FP GB GR HI IE IT FE LS LU MC MW NL PT  
OA SE SI

JP 2000030256 W 20000001 (200001) \* 9p A61K039-00

ADT W 2000030256 A2 WO 2000-038136 (20000123); AU 2000041295 A 2000-040295  
20000123; EP 1150101 A2 EP 2000-038136 (20000123); WO 2000-038136 (20000323);

JP 2000030256 W JP 2000-038136 (20000323); WO 2000-038136 (20000323)

FDT AT 2000041295 A Based on WO 2000030256; EP 1150101 A Based on WO  
2000030256; JP 2000030256 W Based on WO 2000030256

PRAI US 1999-125996P 19990324

IC DM A61K039-00; A61K039-00; A61K039-00;

US A61K039-00; A61K039-00; A61K039-00; A61K039-00; A61K039-00;

A61K039-00; A61K039-00; A61K039-00; A61K039-00

AB W 2000030256 A USAB: 20000117

INVENTY - A method (I) for specifically inhibiting an immune response to selected antigens, comprising incubating **antigen presenting cells (APCs)** that present an antigen against which selective inhibition of an immune response is desired, with an immunosuppressive composition comprising factors secreted by a **glioblastoma cell line** (G), in vitro.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a purified immunosuppressive composition (G) for the reduction of an immune response to one or more selected antigens, comprising one or more factors secreted by (G) having the following characteristics:

(a) incubation of the composition with **APCs** presenting an antigen, and subsequent exposure of the incubated **APCs** to T cells specific for the antigen, induces the T cells to undergo anergy or apoptosis;

(b) a molecular weight greater than 10 kDa;

(c) inability to bind to anion, but not cation exchange columns;

(d) maintain an ability to induce T cells to undergo anergy or apoptosis under the conditions of (a) within the pH range of 2-11, following heat exposure upto 56 deg. C, and following immunoprecipitation of TGF (transforming growth factor)-beta 1, TGF-beta 2, TGF-beta 3, IL (interleukin)-6, calitonin gene related peptide (CGRP) and macrophage colony stimulating factor (M-CSF) from the composition; and

(e) loses the ability to induce T cells to undergo anergy or apoptosis under the conditions of (a) following heat exposure above 65 deg. C, or after exposure to trypsin; and

(2) a preparation of (G) for suppressing an immune response to an antigen, by incubating a supernatant harvested from a (G) culture and the

antigen with an **APC**.

**ACTIVITY** - Neuroprotective; antirheumatic; antiarthritic; dermatological; immunosuppressive; antiinflammatory; antidiabetic.

**MECHANISM OF ACTION** - Inhibits immune response by inducing apoptosis and/or anergy in T cells specific for selected antigens (claimed).

Peripheral blood mononuclear cells (PBMC) from healthy individuals were stimulated with phytohemagglutinin (PHA) or with a mixture of influenza A virus (FLU), tetanus toxoid (TT) and candida (CASTA) in the absence or presence of glioblastoma culture supernatant (GCS) generated by 3MB-99 glioblastoma cell lines. The results indicated that GCS inhibited proliferative responses to both stimuli in a dose-dependent manner. GCS produced by the tumor cell line strongly inhibited T lymphocyte responses to a T cell mitogen and to Th-dependent recall antigens that required intact **antigen presenting cells (APC)** function. As negative controls, culture supernatants from 3-7 tumor lines and two laboratory-generated Epstein Barr Virus (EBV)-transformed cell lines were taken which did not inhibit T cell proliferation or induce changes in IL-12 and IL-10 production when added to PBMC.

**TNE** - (I) is useful for enhancing tolerance in a host mammal to an allogenic donor graft. The allogenic antigen is an antigen from the donor graft and the **APCs** are isolated from the organ, tissue, bone marrow of a mammal. (II) is also useful for enhancing tolerance in a host mammal to an autoantigen. (I) is useful as a medicament for treating immune mediated diseases (claimed) such as MS (multiple sclerosis), RA (rheumatoid arthritis), MG (myasthenia gravis), SLE (systemic lupus erythematosus) and IDDM (insulin dependent diabetes mellitus).

Dwg. 1-13

FS GPI

FA AB; DnI

MC GPI: B04-H0401; B04-F01; B04-F14; B04-H04G; B04-H14B; B04-H04F; B04-K01; B04-N01; B14-C01; B14-C06; B14-C09; **B14-G02**; B14-N17; **B14-S01**; B14-S04; D01-H01; D01-H03

TECH UPTX: 20001124

**TECHNOLOGY FOCUS - BIOLOGY** - Preferred Method: (I) further comprises introducing the **APCs** into a subject in need of a reduced immune response to the antigen to selectively inhibit the immune response of the subject to the antigen. In (II) **APCs** are obtained from a transplant donor and express a transplant antigen or present an autoantigenic antigen. (I) inhibits immune response by inducing apoptosis and/or anergy in T cells specific for the selected antigens. **APCs** are obtained from a donor other than a subject, and the selected antigens are donor-specific antigens present on an allogenic graft. The **APCs** are obtained from a donor of an allogenic graft and the selected antigen is an autoantigenic protein of an autoimmune disease. The **APCs** are isolated from a subject suffering from an autoimmune disease such as multiple sclerosis (MS), rheumatoid arthritis (RA), myasthenia gravis (MG), systemic lupus erythematosus (SLE), or insulin dependent diabetes mellitus (IDDM), and are repetitively exposed to one or more peptide fragments of the autoantigenic protein of the autoimmune disease. The autoantigenic protein is myelin basic protein (MBP), type II collagen, acetyl choline receptor (AChR), nuclear proteins, or pancreatic islet cell antigens. The **APCs** are monocytes isolated from the donor's or subject's blood, macrophages or dendritic cells. Preferred Cell Line: **Glioblastoma** line is 3MB 12, U251 A172, A1207, A1235, A2781, U87 MG, U138 MG or U373 MG.

Preferred Composition: The incubation of (C) with an effective amount of monocytes, dendrites and B cells causes decreased expression of Major histocompatibility complex (MHC) class II antigens and CD 80/86 on the surface of the monocytes and the dendrites, but no effect on the expression of MHC class II antigens and CD 80/86 on the B cells, increased expression of IL-10 in monocytes and dendrites, and decreased expression of IL-12 in monocytes and dendrites.

Preparation: (P) comprises combining (C) with a pharmaceutical carrier.  
**APC** is purified to produce a pure **APC** composition prior to or after incubating with the S-culture supernatant.

ABEX

A. MINISTRATION - **APCs** are administered by intravenous, subcutaneous, intramuscular or intraperitoneal routes (claimed) at a dose of  $30 \times 10^6$  power 6 to  $60 \times 10^6$  power 6 cells.

=> fil dpt

FILE 'LPC1' ENTERED AT 13: 1:17 ON 31 JAN 2003

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FILE LAST UPDATED: 20 JAN 2003 (20030120/JP)

PATENT CITATION INDEX, COVERS 1973 TO DATE

>>> LEARNING FILE LPC1 AVAILABLE

=> d all

L115 ANSWER 1 OF 1 LPC1 (C) 2003 THOMSON DERWENT

AN 2001-038236 [61] DE 11

DNC 0000-191055

TI Inhibiting immune responses to selected antigens for treating immune mediated diseases, by incubating antigen presenting cells with composition comprising factors secreted by plasmotoma cell line.

DC P-4 016

IN CHOUTNET, J; COLICAN, J E; SHEAPER, G N; ZOD, J; ZOU, J

PA USSH; US DEPT HEALTH & HUMAN SERVICES; USSH; US NAT INST OF HEALTH

CYC 00

PI WO 2000046356 A1 20000828 20000101\* EN 68p A61P039-00

FW: AT BE CH CY DE DK ES FI FR GE GR HM IE IT KE LS LU MC MW NL  
 CA PT SP SE SI TJ TG TW

W: AE AG AL AM AT AU AC BA BB BG BF BY CA CH CN CR CU CZ DE DK DM DZ  
 EE ES FI FR GE GR HM IE IT KE LS LU MC MW NL NO NZ PL PT RO RU SD SE SG SI  
 SF SL TJ TM TR TT UA US VE VN YU ZA BW

AD 2000046356 A 20001029 20001029 A61P039-00

EP 1165101 A 20000102 20000102 EN A61P035-14

P: AL AT BE CH CY DE DK ES FI FR GE GR IE IT LI LT LU IV MC MK NL PT  
 PL SE SI

JP 2000046356 W 20001119 20000101 68p A61P035-12

ADT WO 2000046356 A1 WO 2000-087359 20000323; AU 2000046356 A AU 2000-40295  
 20000323; EP 1165101 A1 EP 2000-010639 20000323; WO 2000-US7959 20000323;  
 JP 2000046356 W JP 2000-087359 20000323; WO 2000-US7959 20000323

FDT AU 2000046356 A Based on WO 2000046356; EP 1165101 A1 Based on WO  
 2000046356; JP 2000046356 W Based on WO 2000046356

PRAI US 1999-125996P 19990324

IC ICM A61P035-12; A61P035-14; A61P039-00

ICS A61P039-04; A61P003-19; A61P013-02; A61P021-00; A61P021-04;  
 A61P035-00; A61P029-00; A61P037-02; A61P037-06

FS TPI

# CTCS CITATION COUNTERS

|        |   |                                             |
|--------|---|---------------------------------------------|
| PNC.DI | 0 | Cited Patents Count (by inventor)           |
| PNC.EX | 2 | Cited Patents Count (by examiner)           |
| IAC.DI | 0 | Cited Issuing Authority Count (by inventor) |
| IAC.EX | 1 | Cited Issuing Authority Count (by examiner) |
| PNC.CI | 0 | Citing Patents Count (by inventor)          |
| PNC.GX | 0 | Citing Patents Count (by examiner)          |

IAC.GI 0 Citing Issuing Authority Count (by inventor)  
 IAC.GX 0 Citing Issuing Authority Count (by examiner)  
 CRC.I 0 Cited Literature References Count (by inventor)  
 CRC.X 2 Cited Literature References Count (by examiner)  
 CIP2 CITED PATENTS UPD: 20011110

Cited by Examiner

| CITING PATENT | CAT | CITED PATENT                                           | ACCORD            |
|---------------|-----|--------------------------------------------------------|-------------------|
| WO 200056356  | A X | EP 1544 3                                              | A 1985-238027 '39 |
|               |     | PA: (FONT-I) FONTANA A; (SANO) SANDOZ LTD              |                   |
|               |     | IN: FONTANA, A                                         |                   |
|               | X   | EP 1542 9                                              | A 1985-263190 '42 |
|               |     | PA: (SANO) SANDOZ PATENT (MER); SANO SANDOZ AG; (SANO) |                   |
|               |     | SANDOZ LTD                                             |                   |
|               |     | IN: FONTANA, A                                         |                   |

REN LITERATURE CITATIONS UPD: 20011120

Citations by Examiner

| CITING PATENT | CAT | CITED LITERATURE                                                                                                                                                                                                                                                                   |
|---------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WO 200056356  | A   | PIANG-PING ZOU ET AL.: "Human Glioma-Induced Immunosuppression Involves Soluble Factor(s) That Alters Monocyte Cytokine Profile and Surface Markers" JOURNAL OF IMMUNOLOGY, vol. 162, 1999, pages 4832-4837, XP00149737 THE WILLIAMS AND WILKINS CO. BALTIMORE, US ISSN: 0022-1767 |
| WO 200056356  | A   | DOFFI A. MURFORD ET AL.: "Apoptotic elimination of peripheral T lymphocytes in patients with primary intracranial tumors" JOURNAL OF NEUROSCIENCE, vol. 19, no. 6, December 1999 (1999-12), pages 941-946, XP00952674 XX, XX ISSN: 0920-3676                                       |

>> fil wpi.x

FILE 'WPIX' ENTERED AT 15:32:42 ON 01 JAN 2003  
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FILE LAST UPDATED: 20 JAN 2003 <20030109/UE>  
 MOST RECENT DEFWENT UPDATE: 200307 <20030707/DW>  
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GUIDES, PLEASE VISIT:  
[http://www.derwent.com/userguides/dwpi\\_guide.html](http://www.derwent.com/userguides/dwpi_guide.html) <<<

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LI18 ANSWER 1 OF 2 WPIX (C) 2003 THOMSON DERWENT

AN 1985-103140 (42) WPIX

CR 1985-138907 (39)

DNC 01985-114083

TI New immunosuppressant factors from human glioblastoma cells - useful for  
inhibiting interleukin-2 dependent T-cell mechanisms or with interleukin-1  
like activity.

OC 504 010

IN MONTANA, A

PA (CANO) SANLOS PATENT GMBH; SANGI SANLOS AG; SANGI SANLOS LTD

CYC 16

PI WO 8504421 A 19851010 (198547)\* EN 30p

W: AT IK JP

EP 1985 A 19851023 (198547) EN

<--

F: AT BE CH DE DK FR GB IT LI LU NL SE

AT 8504183 A 19851101 (198547)

EP 8504184 W 19860714 (198547)

DK 8504183 A 19851111 (198547)

IT 14484 A 19851101 (198547)

EP 1985 B 19851010 (198547) EN

<--

F: AT BE CH DE DK FR GB IT LI LU NL SE

DK 8504183 G 19850611 (198547) C12P011-00

EP 8504184 B1 19841013 (198547) 15p C07K015-04

DK 171600 B 19870217 (198547) C07K014-47

EP 850418 A 19840512 (198547) C12P011-00

ADT WO 8504421 A WO 1985-EP107 19850316; EP 150289 A EP 1985-810114 19850315;

JP 61501514 W JP 1985-591675 19850016; EP 159289 B EP 1985-810114

19850315; EP 358506 G DE 1985-388908 19850315; EP 1985-810114 19850315;

JP 6080760 B2 JP 1985-101675 19850316; WO 1985-EP107 19850316; DK 171600

B WO 1985-EP107 19850316; DK 1985-1390 19851121; PH 20248 A PH 1985-31957

19850317

FDT DE 350532 G Based on EP 159289; JP 05081040 B2 Based on JP 61501514,

Based on WO 8504421; DK 171600 B Previous Publ. DK 350532

PRAI AB 1984-19079 19841103; EP 1985-810114 19850315

REP A Int. Ent.

IC 131 207K014-47; C07K015-04; C12P011-00

133 A61P035-13; A61K037-07; C07K014-35; C07K003-00; C12P001-19;

C12P001-01

ICI C12P011-00, C12K001-31

AB WO 8504421 A UPAB: 19970000

Immunosuppressant factor (I) derived from human glioblastoma cells and  
inhibiting interleukin-2 (IL-2) dependent T-cell mechanisms is new. (2)  
Immunosuppressant factor (II) derived from human glioblastoma cells and  
showing interleukin-1 (IL-1) like activity and having a molecular wt. of  
about 22000 is new.

Pref. (I) has a molecular wt. of about 97000 daltons. It is sensitive

to tryptic proteolysis; it inhibits the incorporation of tritiated-Tdr into murine thymocytes stimulated with ConA or PHA in presence of IL-2; and it has an isoelectric point of pH 4.6 (on flatbed isoelectric focussing).

USE/ADVANTAGE - (I) inhibits the IL-2 effect on thymocytes in the presence of lectins and on the induction of alloreactive cytotoxic T-cells in mixed lymphocyte cultures, and it inhibits the growth of neuroblasts but not fibroblasts. It also inhibits the lectin response of human peripheral blood mononuclear cells. (II) enhances the PHA-induced thymocyte proliferation, it has no IL-2 activity and it augments IL-2 prodn. by mitogen-stimulated spleen cells. (I) and (II) are released in vivo and in vitro from the glioblastoma cells and are effective against non-lymphoid tumours.

fwq.1711

FS CP1

FA AB

MC CP1: B04-B04J; B12-D02; B12-G01; B12-G07; D05-C; D05-H01

ABEQ DE 111083 G USAB: 1980915

1. Immunosuppressant factor (I) derived from human glioblastoma cells is new when it inhibits interleukin 1 (IL-2) dependent T-cell mechanism and has a molecular wt. of about 97000. (2) Factor (II) for inhibition of neuroblast growth and having a molecular wt. of about 71000 is new. (3) Interleukin 1 (IL-1) like factor (III) derived from human glioblastoma cells and having a molecular wt. of about 22000 is new. 4. Supernatant harvested from cultured human glioblastoma cells contg. a factor (I) and/or (II) and/or (III) is new.

USE/ADVANTAGE - (I) has an inhibitory effect on IL-2 dependent T-cell mechanisms and inhibits IL-2 induced proliferation of T-cell clones and the induction of alloreactive cytotoxic T-cells in mixed lymphocyte cultures. It also inhibits the growth of neuroblasts but not of fibroblasts.

III promotes morphological differentiation of Neuro LA cells. (III) is an IL-1 like mediator, as it enhances PHA-induced thymocyte proliferation and it has no IL-1 activity but augments IL-1 prodn. by M-stimulated spleen cells.

ABEQ EF 111083 B USAB: 1980915

A. Immunosuppressant factor isolated from human glioblastoma cells which; (aa) inhibits the incorporation of tritiated thymidine into murine thymocytes stimulated with Con-canavalin A or phythaemagglutinin in the presence of IL-2; (bb) inhibits the proliferation of IL-2 dependent T cell clones; (cc) suppresses the growth of neuroblasts but not fibroblasts; (dd) inhibits the generation of cytotoxic T cells in the allogenic mixed lymphocyte reaction; (ee) inhibits the proliferation of hapten-specific cytotoxic T cells in the presence of haptenated stimulator; (ff) inhibits the proliferative response of thymocytes to concanavalin A and (hh) is sensitive to tryptic proteolysis.

L118 ANSWER OF 1 WPIX 00 2003 THOMSON DERWENT

AN 1985-100017 [30] WPIX

CR 1985-100100 [41]

DNC C1045-100016

TI New factors obtd. by cultivating human glioblastoma cells - include immunosuppressant, neuroblast growth inhibitor and interleukin-1 like factor.

DC B 1 D16

IN FONTANA, A

PA (NOV) NEWARTIS AG; FONT-1 FONTANA A; (SANO) SANDOZ LTD

CYC 5

PI EP 19831 A 19850925 198509 \* EN 30p

RE CH LI

ZA 3501104 A 19861126 198602

JS 3505005 A 19920310 (199213 18p

PH 28243 A 19940512 (199408

CA 1941401 C 20021126 (200305) EN 312P021-00

A61K035-12

ADT EP 155433 A EP 1984-310140 19840323; ZA 9592194 A ZA 1985-3194 19850322;  
US 5095095 A US 1990-553096 19900713; PH 2-249 A PH 1985-31957 19850307;  
CA 1 41401 C CA 1985-476106 19850309

PRAI EP 1984-310140 19840323; US 1990-553096 19900713; US 1984-594601  
1984 119; US 1987-300369 1987 1111

REP 4-Int. Ser.

IC A61K07-12; C07P01-00; C07K01-10; C12P01-10; C12R003-00

ICM A61K08-12; C12P021-00

ICG A61K08-12; A61K08-16; C12N03-00; C12K013-00; C12N03-08;

C12K014-00

AB EP 155433 A ABAB: 19900305

(1) Immunosuppressant factor (I) derived from human glioblastoma cells is new when it inhibits interleukin 2 (IL-2) dependent T-cell mechanism and has a molecular wt. of about 3000. (2) Factor (II) for inhibition of neuroblast growth and having a molecular wt. of about 7000 is new. (3) Interleukin 1 (IL-1) like factor (III) derived from human glioblastoma cells and having a molecular wt. of about 11000 is new. 4 Supernatant harvested from cultured human glioblastoma cells contain a factor (I) and/or (II) and/or (III) is new.

USE/ADVANTAGE - (I) has an inhibitory effect on IL-2 dependent T-cell mechanisms and inhibits IL-2 induced proliferation of T-cell clones and the induction of alloreactive cytotoxic T-cells in mixed lymphocyte cultures. It also inhibits the growth of neuroblasts but not of fibroblasts.

(II) promotes morphological differentiation of Neuro SA cells. (III) is an IL-1 like mediator, as it enhances PHA-induced thymocyte proliferation and it has no IL-2 activity but augments IL-2 prodn. by B-stimulated spleen cells.

Reg. No. 8

Reg. No. 9

FS CFI

FA AB

MC CFI: B04-B04A; B12-D02; D05-H

ABEQ EP 155433 A ABAB: 19900305

(1) Immunosuppressant factor (I) derived from human glioblastoma cells is new when it inhibits interleukin 2 (IL-2) dependent T-cell mechanism and has a molecular wt. of about 3000. (2) Factor (II) for inhibition of neuroblast growth and having a molecular wt. of about 7000 is new. (3) Interleukin 1 (IL-1) like factor (III) derived from human glioblastoma cells and having a molecular wt. of about 11000 is new. 4 Supernatant harvested from cultured human glioblastoma cells contain a factor (I) and/or (II) and/or (III) is new.

USE/ADVANTAGE - (I) has an inhibitory effect on IL-2 dependent T-cell mechanisms and inhibits IL-2 induced proliferation of T-cell clones and the induction of alloreactive cytotoxic T-cells in mixed lymphocyte cultures. It also inhibits the growth of neuroblasts but not of fibroblasts.

(II) promotes morphological differentiation of Neuro SA cells. (III) is an IL-1 like mediator, as it enhances PHA-induced thymocyte proliferation and it has no IL-2 activity but augments IL-2 prodn. by B-stimulated spleen cells.

ABEQ EP 155433 A ABAB: 19900305

Immunosuppressant factor (I) is characterised by (a) inhibiting the incorporation of tritiated thymidine into murine thymocytes stimulated with Concanavalin A or phytohaemagglutinin in the presence of IL-2; (b) inhibiting proliferation of IL-2 dependent T-cell clones; (c) suppressing the growth of neuroblasts but not fibroblasts; (d) inhibiting the generation of cytotoxic T-cell in the allogeneic mixed lymphocyte reaction; (e) inhibiting the proliferation of hapten-specific cytotoxic T-cells in the presence of haptenated stimulator; (f) inhibiting the proliferative response of thymocytes to concanavalin A; and (g) having a specific activity of at least 70,000 units/mg in the concanavalin A/thymocyte assay.

USE/ADVANTAGE - Factor is derived from human glioblastoma cells and inhibits the lectin response of human peripheral blood mononuclear cells isolated from blood donors. Prevents transplant rejection and treats auto-immune diseases.

1'1

=> fil medline

FILE 'MEDLINE' ENTERED AT 15:39:55 ON 31 JAN 2003

FILE LAST UPDATED: 30 JAN 2003 (20030130/UP). FILE COVERS 1958 TO DATE.

On June 9, 2002, MEDLINE was reloaded. See HELP RLOAD for details.

MEDLINE thesauri in the /CN, /CT, and /NN fields incorporate the MeSH 2003 vocabulary. See <http://www.nlm.nih.gov/mesh/summ2003.html> for a description of changes.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L127 ANSWER 1 OF 2 MEDLINE  
 AU 2000049533 MEDLINE  
 DI 20049533 PubMed ID: 10584809  
 TI Apoptotic elimination of peripheral T lymphocytes in patients with primary intracranial tumors.  
 AU Morford L A; Dix A B; Brooks W B; Kozman T L  
 CO Department of Microbiology and Immunology, University of Kentucky Medical Center, Lexington 40536-0084, USA.  
 SO JOURNAL OF NEUROSURGERY, (1999 Dec) 91 (6) 935-46.  
 Journal code: 0153357. ISSN: 0022-3085.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Abstracted Index Medicus Journals; Priority Journals  
 EN 199911  
 ED Entered STN: 20000113  
 Last Updated on STN: 2000113  
 Entered Medline: 19991211  
 AB OBJECT: Patients with gliomas exhibit severe T lymphopenia during the course of the disease. This study was conducted to determine the mechanism(s) responsible for the lymphopenia. METHODS: Using two-color fluorescent staining techniques, the authors show that significant numbers of T cells undergo apoptosis in the peripheral blood of patients with gliomas. To determine whether a glioma-derived factor(s) induces this apoptosis, rosette-purified T cells obtained from healthy donors were treated with glioma cell culture supernatant (GCCS) and examined for apoptosis. It is demonstrated that treatment of normal T cells with GCCS induced apoptosis only with concurrent stimulation of the T-cell receptor/CD3 complex. The addition of neutralizing antibodies to interleukin (IL)-10, IL-4, transforming growth factor alpha, or tumor necrosis factor-beta (lymphotoxin) did not rescue these T cells from apoptosis. Experiments were also conducted in which the degree of monocyte involvement in the induction of T-cell apoptosis was explored. The U937 cells were pretreated for 20 hours with a 1:20 dilution of GCCS. After the removal of GCCS, the U937 cells were cultured in transwell assays with stimulated T cells. Although control U937 cells did not induce apoptosis of the activated T cells, GCCS-pretreated U-37 cells induced appreciable apoptosis in normal, stimulated T-cell cultures. CONCLUSIONS: These data indicate that one mechanism by which gliomas cause immunosuppressive

effects is the induction of monocytes to release soluble factors that promote activated T-cell apoptosis. The loss of activated T cells leads to T lymphopenia and contributes to the deficiencies in cell-mediated immunity that have been observed during testing of glioma patients' immune function.

CT Check Tags: Female; Human; Male; Support, Non-U.S. Gov't

Adult

Aged

\*Apoptosis: PH, physiology

\*Brain Neoplasms: IM, immunology

\*Cytokines: PH, physiology

Flow Cytometry

\*Glioblastoma: IM, immunology

\*Glioma: IM, immunology

Immune Tolerance: IM, immunology

Lymphocyte Transformation: IM, immunology

\*Lymphopenia: IM, immunology

Middle Age

\*Monocytes: IM, immunology

\*T-Lymphocytes: IM, immunology

T84 Cells: IM, immunology

CN C (Cytokines)

L127 ANSWER 2 OF 2 MEDLINE

AN 199918581 MEDLINE

DN 9918581 PubMed ID: 10202033

TI Human glioma-induced immunosuppression involves soluble factor(s) that alters monocyte cytokine profile and surface markers.

AU Zou J P; Morford L A; Chouhret C; Dix A R; Brooks A G; Torres N;

Samuel J E; Colligan J E; Brooks W H; Roszman T L; Shearer G M

CS Experimental Immunology Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD 20892, USA.

SO JOURNAL OF IMMUNOLOGY, (1999 Apr 15) 162 (8) 4882-92.

Journal code: 0022-1767. ISSN: 0022-1767.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Abridged Index Medicus Journals; Priority Journals

EM 199915

ED Entered STN: 19990517

Last Updated on STN: 19990517

Entered Medline: 19990506

AB Patients with gliomas exhibit deficient in vitro and in vivo T cell immune activity, and human glioblastoma culture supernatants (GCS) inhibit in vitro T lymphocyte responses. Because APC are essential for initiating and regulating T cell responses, we investigated whether GCS would affect cytokines produced by monocytes and T cells from healthy donors of PBMC. Incubation of PBMC with GCS decreased production of IL-12, IFN-gamma, and TNF-alpha, and increased production of IL-6 and IL-10. The GCS-induced changes in IL-12 and IL-10 occurred in monocytes, and involved changes in IL-12 p40 and IL-10 mRNA expression. Incubation with GCS also resulted in reduced expression of MHC class II and of CD80, 86 costimulatory molecules on monocytes. The immunosuppressive effects were not the result of IL-6 or TGF-beta1 that was detected in GCS. However, it was due to a factor(s) that is resistant to pH extremes, differentially susceptible to temperature, susceptible to trypsin, and has a minimum molecular mass of 40 kDa. Our findings show that glioblastoma-generated factors that are known to suppress T cell responses alter the cytokine profiles of monocyte/APC that, in turn, inhibit T cell function. This model indicates that monocytes can serve as an intermediate between tumor-generated immune-suppressive factors and the T cell responses that are suppressed in gliomas.

CT Check Tags: Human, Support, U.S. Gov't, P.H.S.

Antibodies, Monoclonal: ID, pharmacology  
 Antigens, CD: BI, biosynthesis  
 Antigens, CD: IM, immunology  
 Antigens, CD80: BI, biosynthesis  
 Antigens, CD80: IM, immunology  
 \*Antigens, Surface: BI, biosynthesis  
 Cell-Free System: CH, chemistry  
 Cell-Free System: IM, immunology  
 Cytokines: AI, antagonists & inhibitors  
 \*Cytokines: BI, biosynthesis  
 Glioblastoma  
 \*Glioma: CH, chemistry  
 \*Glioma: IM, immunology  
 Glioma: ME, metabolism  
 Histocompatibility Antigens Class I: BI, biosynthesis  
 Histocompatibility Antigens Class I: IM, immunology  
 Interferon-gamma, Recombinant: PD, pharmacology  
 Interleukin-10: AI, antagonists & inhibitors  
 Interleukin-10: BI, biosynthesis  
 Interleukin-10: GE, genetics  
 Interleukin-10: IM, immunology  
 Interleukin-12: AI, antagonists & inhibitors  
 Interleukin-12: BI, biosynthesis  
 Interleukin-12: GE, genetics  
 Leukocytes, Mononuclear: IM, immunology  
 Leukocytes, Mononuclear: ME, metabolism  
 Lymphocyte Transfection: IM, immunology  
 Membrane Glycoproteins: BI, biosynthesis  
 Membrane Glycoproteins: IM, immunology  
 Monocytes: IM, immunology  
 \*Monocytes: ME, metabolism  
 RNA, Messenger: BI, biosynthesis  
 Receptors, Interleukin: IM, immunology  
 Staphylococcus aureus: IM, immunology  
 Suppressor Factors, Immunologic: CH, chemistry  
 \*Suppressor Factors, Immunologic: PH, physiology  
 T-Lymphocytes: IM, immunology  
 Tumor Cells, Cultured

RN 150068-17-8 (Interleukin-10 ; 157348-17-0 (Interleukin-12)  
 CN 0 (Antibodies, Monoclonal); 0 (Antigens, CD); 0 (Antigens, CD80); 0  
 (Antigens, Surface); 0 (B2-microglobulin); 0 (Cytokines); 0  
 (Histocompatibility Antigens Class I); 0 (Interferon-gamma, Recombinant);  
 0 (Membrane Glycoproteins); 0 (RNA, Messenger); 0 (Receptors,  
 Interleukin); 0 (Suppressor Factors, Immunologic); 0 (interleukin-10  
 receptors)

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(FILE 'HOME' ENTERED AT 14:26:15 ON 31 JAN 2003)  
 SET CUST OFF

FILE 'HYPALUS' ENTERED AT 14:28:31 ON 31 JAN 2003  
 E GLIOBLASTOMA/CT  
 E E4+ALL  
 L1 2 10 S E2  
 L2 48 S E6  
 L3 2000 S L1, L2  
 E GLIOBLAST  
 L4 4000 S E1-E14  
 L5 4000 S L3, L4  
 E APCPTOSIS/CT  
 E E3+ALL

L6 46731 S E5,E4  
           E E3+ALL  
 L7 9835 S E3,E4,E6,E7  
           E APOPTO  
 L9 63631 S E3-E4  
 L1 24813 S E3-E4  
 L10 1 S E6  
 L11 4 S L1 AND L6-L10  
           E E3E19  
 L12 4 S E  
 L13 4 S E3E19  
 L14 4 S L11,L12  
 L15 4113 S L14,L1  
 L16 421 S L15 AND L6-L10  
 L17 421 S L11,L12  
 L18 421 S L1,L14 AND ?APOPTO?  
 L19 427 S L11,L12  
           E MULTIPLE SCLEROSIS/CT  
           E E3+ALL  
 L20 6357 S E  
 L21 8762 S E1-E5+BI  
 L22 13 S L1,L11 AND L12  
           E MYELIN BASIC PROTEIN/CT  
           E E3+ALL  
 L23 3077 S E1,E11,E8+NT  
 L24 5316 S E1,E11-E12+BI  
 L25 5315 S MYELIN BASIC PROTEIN  
 L26 4 S L23-L25 AND L15  
 L27 4 S M24 AND L15  
           E MONOCYTE/CT  
           E E3+ALL  
 L28 152 S E1  
           E E3+ALL  
 L29 19142 S E11  
 L30 30 S L23,L25 AND L15  
 L31 4 S L15 AND L23,L25,L27,L30  
           E SHEPHERD G/AU  
 L32 142 S E1,E3,E11,E12  
           E OLIGODENDROCYTE/AU  
 L33 144 S E4-E7  
           E COUGHNET C/AU  
           E CHOU J/AU  
 L34 200 S E1,E12  
           E CHOU JIAN/AU  
 L35 34 S E1,E14  
           E CHOU JIANHONG/AU  
 L36 117 S E1-E3  
           E COUGHNET C/AU  
 L37 17 S E1-E3,E1  
           E CHOU J/AU  
 L38 12 S E1,E3  
           E CHOU JIAN/AU  
 L39 34 S E1  
 L40 66 S E16  
 L41 17 S E33,E40  
 L42 1272 S L42-L43  
 L43 1 S L42 AND L15  
           E ANTIGEN-PRESENT/CT  
           E E3+ALL  
 L44 2231 S E1  
 L45 7233 S E3+NT  
 L46 7644 S ANTIGEN? PRESENT? CELL  
 L47 20 S L1 AND L44-L46

L49 13 S L5 AND ANTIGEN? PRESENT?  
 L49 26 S L17, L18  
 L50 1 S L14 AND L44-L46  
 L51 0 S L14 AND ANTIGEN? PRESENT?  
 L52 14 S L15 AND APC  
 L53 25 S L16, L17  
 L54 19 S L18 AND IMMUN? (L) RESPON?  
 L55 18 S L52, L54 AND L6-L13, L20, L21, L23-L25, L28, L29  
 SEL ON AN 1 5 6 9 10  
 L56 9 S E1-E11  
 L57 25 S L52, L54 NOT L55  
 SEL ON AN 1 12 13 16 23 24  
 L58 6 S L17 AND E1-E19  
 L59 11 S L18, L19, L20  
 E TRANSPLANTATION/CT  
 E E1-ALL  
 L60 285 1 S E1, E2  
 L61 30 S E3  
 L62 261 5 S E4  
 E TRANSPLANT/CT  
 L63 444 S E5  
 E E1-ALL  
 L64 299 0 S E7-E11, E5+H7  
 L65 45 7 S E3+H7  
 E TRANSPLANT/CT  
 L66 444 S E4  
 L67 56 S L16 AND L60-L66  
 L68 148 S L18 AND (TRANSPLANT? OR GRAFT?)  
 L69 4 S L17, L18 AND L44-L46  
 SEL ON AN 1 2 3  
 L70 7 S E1-E4  
 L71 11 S L53, L70 AND L1-L70  
 L72 18 S L19 AND L44-L46  
 L73 3 S L71 AND L60-L66  
 L74 9 S L72 AND (TRANSPLANT? OR GRAFT? OR DONOR?)  
 L75 11 S L73, L74, L71  
 L76 10 S L72 NOT L71

FILE 'HCAPLUS' ENTERED AT 15:04:55 ON 31 JAN 2003

L77 24 S L18 AND A61K039, IC, ICM, ICS  
 L78 3 S L77 AND L44-L46  
 L79 1 S L77 AND APC  
 L80 3 S L77 AND ANTIGEN? (L) PRESENT?  
 L81 4 S L78-L80  
 L82 1 S L81 NOT L77

FILE 'BIGSIS' ENTERED AT 15:09:38 ON 31 JAN 2003

E SHEARER, G AU  
 L83 487 S E3, E4  
 L84 141 S E14, E15  
 E ZHOU J/AU  
 L85 41 S E6  
 E ZHOU JIAN, AU  
 L86 27 S E7  
 E COLLIGAN J AU  
 L87 411 S E5-E6  
 E CHOCQUET C AU  
 L88 4 S E3-E6  
 E ZHOU J, AU  
 L89 616 S E3, E17  
 E ZHOU JIAN, AU  
 L90 122 S E3  
 L91 11 S E19



E ZHOU JIANPING/AU  
 L92 13 S E3,E4,E2  
 L93 1910 S L83-L82  
 E GLIOBAS  
 L94 213 S E1-E11  
 L95 7464 S E3-E24  
 L96 7 S E13-E17,E29  
 L97 3 S L83 AND L94-L96  
 L98 2 S L87 AND (MONOCYTE OR GLIOMA?) TI  
 L99 15 DUP REM L83 L93 (0 DUPLICATES REMOVED)

FILE 'BIOSIS' ENTERED AT 15:18:51 ON 31 JAN 2003

L100 61 S ZOU J AU OR ZOU J P/AU  
 L101 2 S L100 AND L94,L95  
 L102 2 S L98,L101

FILE 'WPIX' ENTERED AT 15:16:43 ON 31 JAN 2003

E U394-115496/AP, PEN  
 L103 1 S E1  
 E GLIOB  
 L104 521 S E4-E12  
 L105 512 S GLIOBLAST  
 L106 581 S L105 BIX  
 L107 589 S L104-L106  
 L108 6 S L107 AND (APC OR ANTIGEN? PRE. ENT? CELL?)/BIX  
 L109 1 S L108 AND (APC, T, IC, ICM, ICS, ICA, ICI  
 L110 3 S L108 AND (B14-S01 OR C14-S01 OR B12-E01 OR C12-E01 OR B14-G?  
 L111 5 S L108 NOT L103,L109,L110  
 L112 1 S L111 AND ANTIGEN? TI  
 L113 4 S L110,L111

FILE 'WPIX' ENTERED AT 15:20:26 ON 31 JAN 2003

L114 4 S L107,L113

FILE 'DPC1' ENTERED AT 15:19:16 ON 31 JAN 2003

E U394-115496/AP, PEN  
 L115 1 S E1

FILE 'DPC1' ENTERED AT 15:21:17 ON 31 JAN 2003

FILE 'WPIX' ENTERED AT 15:21:38 ON 31 JAN 2003

E EF159483/IN  
 L116 1 S E1  
 E EF159498/PN  
 E EF159489/IN  
 L117 1 S E1  
 L118 2 S L116,L117

FILE 'WPIX' ENTERED AT 15:22:42 ON 31 JAN 2003

FILE 'MEDLINE' ENTERED AT 15:24:11 ON 31 JAN 2003

FILE 'HCAPLUS' ENTERED AT 15:30:18 ON 31 JAN 2003

E JOURNAL OF NEUROSURGERY/JT  
 L119 0 S E2 AND LOFRIT/AU  
 L120 31 S E2 AND 1499/PY  
 L121 0 S 928,90 AND L120

FILE 'BIOSIS' ENTERED AT 15:37:23 ON 31 JAN 2003

E JOURNAL OF NEUROSURGERY/JT

FILE 'MEDLINE' ENTERED AT 15:37:41 ON 31 JAN 2003

E JOURNAL OF NEUROSURGERY/JT

E JOURNAL OF NEUROSURGERY/JT  
L122      17 S E3 AND 935/SO  
L123      2 S L122 AND 1999/FY  
L124      1 S L123 AND MORFORD ?/AU  
          E JOURNAL OF IMMUNOLOGY/JT  
L125      16 S E3 AND (ZOU J? OR ZHOU J?)/AU  
L126      1 S 4882/SO AND L125  
L127      2 S L124,L126

FILE 'MEDLINE' ENTERED AT 15:39:55 ON 31 JAN 2003